magicolor® 2300W User's Guide

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Registering the Printer

Mail (Americas only)—Fill out and send in the registration card enclosed in your shipment.

Internet—Go to http://printer.konicaminolta.net/register and follow the instructions.

CD-ROM—Follow the instructions on the CD-ROM.

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1

Software Installation

Utilities and Documentation CD-ROM

Drivers and Utilities

Drivers

Drivers/Operating System	Use/Benefit
Printer Driver for Windows Me/98	These drivers give you access to all of the printer features, including finishing and advanced layout. See also “Working with the Printer Driver” on page 29.
Printer Driver for Windows XP/2000	

Utilities

Utilities	Use/Benefit
Status Display	This utility allows you to monitor the printer’s status and perform various printer functions. See “Working with the Status Display” on page 39.

Installing the Printer Drivers and Software

System Requirements

- PC with a clock speed of 300 MHz or more Intel Pentium/Celeron series, AMD K6/Athlon/Duron family, or compatible processor
- Microsoft Windows 98 SE, Windows Me, Windows 2000 Professional, Windows XP Home Edition/Professional
- Free hard disk space
  - Approximately 128 MB of free hard disk space for printer driver and Status Display
  - Approximately 128 MB of free hard disk space for image processing
- Memory capacity
  - Windows 98 SE:
    At least 16 MB of RAM
  - Windows Me:
    At least 32 MB of RAM
  - Windows 2000 Professional:
    At least 64 MB of RAM
  - Windows XP Home Edition/Professional:
    At least 128 MB of RAM
- CD-ROM drive
- IEEE 1284 compliant type B parallel port, or USB Revision 1.1 compliant port

For a Local Connection

1. Insert the magicolor2300W *Utilities and Documentation* CD-ROM in your PC's CD-ROM drive. The CD-ROM installer program starts automatically (if not, browse with the Windows Explorer to the CD-ROM location and double-click on setup.exe).
2. Select the language, and click **OK**.
3. Click .
4. Click **Printer Setup**.
5. Click **Accept**.
6. Click **OK**.
7. Select **Local Printer**, and then click **OK**.

8 If the computer onto which you are installing the driver is a print server, check the **Server Install** checkbox, and then type in a name for **Share Name**.

9 Click **OK**.

10 From the **Select Port** list, select the port to which the printer is connected.

11 If the printer is to be used as the default printer, select the **Set as default printer?** check box.

12 Click **OK**.

13 Check and, if desired, change the description that appears in the **Printer Name** box, and then click **OK**.

14 After the message “Congratulations, installation complete.” appears, click **OK**.

*The printer icon is added to the **Printers** folder and “magicolor2300W Utilities” is added to **Programs** in the **Start** menu.*

15 Click to quit the installer program.

16 Remove the magicolor2300W *Utilities and Documentation* CD-ROM from your PC’s CD-ROM drive and store it in a safe place.

For a Shared Network Printer

1. Insert the magicolor2300W *Utilities and Documentation* CD-ROM in your PC's CD-ROM drive. The CD-ROM installer program starts automatically (if not, browse with the Windows Explorer to the CD-ROM location and double-click on setup.exe).
2. Select the language, and click **OK**.
3. Click .
4. Click **Printer Setup**.
5. Click **Accept**.
6. Click **OK**.
7. Select **Network Printer**, and then click **OK**.
8. Type `\\server_name\shared_printer_name` where *server_name* is the name of the shared server and *shared_printer_name* is the name of the printer you are sharing.

   *In Windows 2000 and XP, you can click **Browse**, and then select the shared printer.*
9. Click **OK**.
10. If the printer is to be used as the default printer, select **Yes**. Otherwise, select **No**.
11. Click **OK**.
12. After the message "Congratulations, installation complete." appears, click **OK**.

    *The printer icon is added to the **Printers** folder.*
13. Click to quit the installer program.
14. Remove the magicolor2300W *Utilities and Documentation* CD-ROM from your PC's CD-ROM drive and store it in a safe place.

Selecting Driver Options/Defaults

Before you start working with your printer, you are advised to verify and, if necessary, change the default driver settings. Also, if you have any options installed on the printer, you should configure the driver for these options.

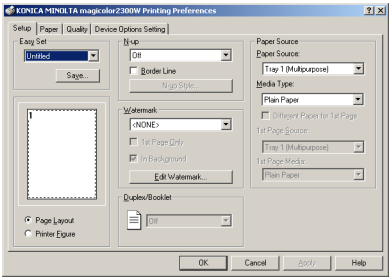
1 Choose the driver's properties as follows:

- (Windows Me/98)
  From the **Start** menu, choose **Settings** and then **Printers** to display the **Printers** dialog box. Right-click the magicolor2300W printer icon and choose **Properties**. Choose the **Printer Properties** tab.
- (Windows 2000/XP)
  From the **Start** menu, choose **Settings** and then **Printers** to display the **Printers** dialog box. Right-click the magicolor2300W printer icon and choose **Printing Preferences...**

2 Choose the **Paper** tab. Select the default settings for your printer, such as the default media format you use.

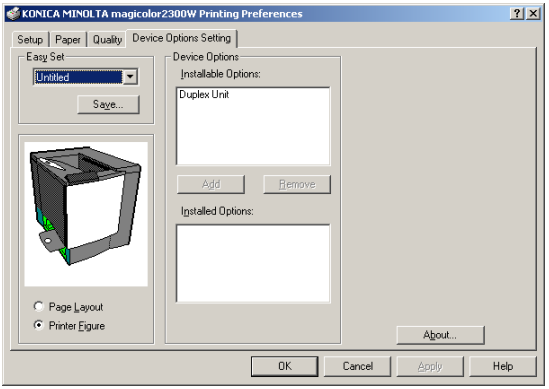
3 Click **Apply**.

4 If you have installed any options on the printer, proceed with the next step. Otherwise, skip to step 8.



5 Select the **Device Options Setting** tab.

6 Select an option (one at a time) and click **Add**. The option moves to the **Installed Options** list.



*If you accidentally add an option that is not installed on the printer, select the option in the **Installed Options** list and then click **Remove**.*

7 Click **Apply**.

*Depending on the version of the operating system, **Apply** may not appear. If this is the case, continue with the next step.*

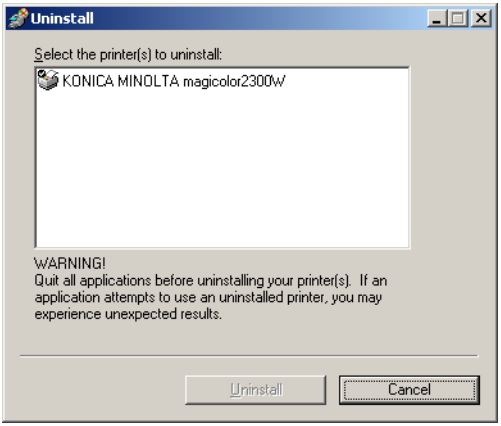
8 Click **OK** to save your changes and exit from the **Printing Preferences** dialog box.

Uninstalling the Printer Driver

This section describes how to uninstall the magicolor2300W printer driver if necessary.

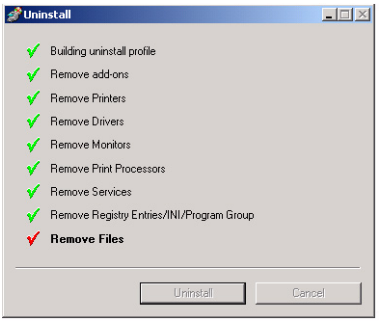
1 From the **Start** menu choose **Programs**, **magicolor2300W Utilities**, and then **magicolor2300W Uninstall**.

2 In the **Uninstall** window, select the magicolor2300W. Then click **Uninstall**.


Uninstall
Select the printer(s) to uninstall:
KONICA MINOLTA magicolor2300W
WARNING!
Quit all applications before uninstalling your printer(s). If an application attempts to use an uninstalled printer, you may experience unexpected results.
Uninstall
Cancel

The magicolor2300W driver is uninstalled from your computer.

3 Restart your computer.



2 Using Media

Introduction

This chapter provides information on handling, selecting, loading, and storing media.

Getting Started	
What **types** and **sizes** of media can I load?	page 11
What Is the **guaranteed** imageable (printable) area?	page 18
Other Information	
How do I **load** media?	page 20
How do I **duplex**?	page 23
How do I **store** media?	page 24
Where can I **order** KONICA MINOLTA-approved media or get more **information**?	page 24

- All media is fed short edge first, face up.
- There is a 0.157" (4 mm) non-print border for all edges on all media types. Refer to page 18 for paper longer than 11.7" (297 mm).
- See your application documentation for specific information on formatting data and printing.
- Try printing your data on a plain sheet of paper first to check placement.
- Only plain paper, 16–24 lb (60–90 g/m^2) can be autoduplexed. See “Media Specifications” for supported sizes.

Attention

Use only KONICA MINOLTA-approved media. Using unsupported media such as inkjet paper will result in damaging the printer and in voiding your warranty.

Media Specifications

What types and sizes of media can I load?

Media	Media Size		Duplex	Driver media Type	Weight
	Inches	Millimeters			
A4	8.2 × 11.7	210.0 × 297.0	Yes	Plain Paper	16–24 lb bond (60–90 g/m²)
A5	5.9 × 8.3	148.0 × 210.0	No		
B5 (JIS)	7.2 × 10.1	182.0 × 257.0	No		
Custom, Minimum	3.6 × 5.8	92.0 × 148.0	No		
Custom, Maximum	8.5 × 14.0	216.0 × 356.0	No		
Executive	7.25 × 10.5	184.0 × 267.0	No		
Folio	8.3 × 13.0	210.0 × 330.0	Yes		
Foolscap	8.0 × 13.0	203.2 × 330.2	Yes		
Government Legal	8.5 × 13.0	216.0 × 330.0	Yes		
Kai 16	7.3 × 10.2	185.0 × 260.0	No		
Legal	8.5 × 14.0	215.9 × 355.6	Yes		
Letter	8.5 × 11.0	215.9 × 279.4	Yes		
Letter Plus	8.5 × 12.7	215.9 × 322.3	Yes		
Statement	5.5 × 8.5	140.0 × 216.0	No		
UK Quarto	8.0 × 10.0	203.2 × 254.0	No		
A4 Transparency	8.2 × 11.7	210.0 × 297.0	No	Trans-parency	Use only approved media
Letter Transparency	8.5 × 11.0	215.9 × 279.4	No		
Japanese Postcard	3.9 × 5.8	100.0 × 148.0	No	Postcard	Use only approved media
Envelope B5 (ISO)	6.9 × 9.8	176.0 × 250.0	No	Envelope	
Envelope C5	6.4 × 9.0	162.0 × 229.0	No		
Envelope C6	4.5 × 6.4	114.0 × 162.0	No		
Envelope Commercial #10	4.1 × 9.5	104.1 × 241.3	No		
Envelope International DL	4.3 × 8.7	110.0 × 220.0	No		
Envelope Monarch	3.9 × 7.5	99.0 × 190.5	No		
Thick Stock—Only supported for letter, A4, or smaller media.					
Custom, Minimum	3.6 × 5.8	92.0 × 148.0	No	Thick Stock	25–90 lbs (91–163 g/m²)
Custom, Maximum	8.5 × 11.7	216.0 × 297.0			
Kai 32	5.1 × 7.3	130.0 × 185.0	No		

Media Types

Before purchasing a large quantity of special media, do a trial printing with the same media and check print quality. Check our web site www.konicaminolta.net/printer/ for a list of currently approved media.

Keep media on a flat, level surface in its original wrapper until it is time to load it.

Plain Paper

Capacity	**Tray 1** (multipurpose tray)	200 sheets of 22 lb bond (80 g/m^2) paper; capacity for other weights varies accordingly.
Orientation	Face up	
Type	Check http://printer.konicaminolta.net/support (click on "Answer Base") for currently approved media.	
Driver Media Type	Plain paper	
Weight	16–24 lb bond (60–90 g/m²)	
Duplexing	See page 11 for supported sizes.	

Use media that is

Suitable for plain-paper laser printers, such as standard or recycled office paper.

Attention

Do not use the media types listed below. These could cause poor print quality, media jams, or damage to the printer.

Do not use media that is

- Coated with a processed surface (such as carbon paper, digitally gloss-coated media, colored paper that has been treated)
- Carbon backed
- Unapproved iron-on transfer media (heat-sensitive paper, heat-pressure paper, heat-press transfer paper)
- Cold-water-transfer paper
- Pressure sensitive
- Designed specifically for inkjet printers (superfine paper, glossy paper, glossy film, postcards, etc.)
- Already been printed on by another printer, copier, or fax machine

- Dusty
- Wet (or damp)

  Keep media between 35% to 85% relative humidity. Toner does not adhere well to moist or wet paper.
- Layered
- Adhesive
- Folded, creased, curled, embossed, warped, or wrinkled
- Perforated, three-hole punched, or torn
- Too slick, too coarse, too textured
- Different in texture (roughness) on the front and back
- Too thin or too thick
- Stuck together with static electricity
- Composed of foil or gilt; too luminous
- Heat sensitive or cannot withstand the fusing temperature (356°F/180°C)
- Irregularly shaped (not rectangular or not cut at right angles)
- Attached with glue, tape, paper clips, staples, ribbons, hooks, or buttons
- Acidic
- Any other media that is not approved

Thick Stock

Paper thicker than 24 lb (90 g/m^2) bond is referred to as thick stock. Test all thick stock to ensure acceptable performance and to ensure that the image does not shift.

Capacity	**Tray 1**	Up to 50 thick stock sheets, depending on their thickness. Thick stock is supported only in letter, A4, or smaller media sizes.
Orientation	Face up	
Type	Check http://printer.konicaminolta.net/support (click on "Answer Base") for currently approved media.	
Driver Media Type	Thick stock	
Weight	25–43 lb bond (91–163 g/m²)	
Duplexing	Not supported	
Notes	43 lb (163 g/m²) bond is also referred to as 90 lb index stock.	

Do not use thick stock that is

- Mixed with any other media in the media trays (as this will cause media jams)

Envelopes

Print on the front (address) side only. Some parts of the envelope consist of three layers of paper—the front, back, and flap. Anything printed in these layered regions may be lost or faded.

Capacity	**Tray 1**	Up to 10 envelopes, depending on their thickness
Orientation	Face up	
Type	Check http://printer.konicaminolta.net/support (click on "Answer Base") for currently approved media.	
Driver Media Type	Envelope	
Weight	25–43 lb bond (91–163 g/m²)	
Duplexing	Not supported	

Use envelopes that are

- Common office envelopes approved for laser printing with diagonal joints, sharp folds and edges, and ordinary gummed flaps

  Because the envelopes pass through heated rollers, the gummed area on the flaps may seal. Using envelopes with emulsion-based glue avoids this problem.

- Dry
- Printed on the front address side only

Do not use envelopes that have

- Self-sticking flaps
- Tape seals, metal clasps, paper clips, fasteners, or peel-off strips for sealing
- Transparent windows
- Too rough of a surface
- Material that will melt, vaporize, offset discolor, or emit dangerous fumes
- Been presealed

Labels

A sheet of labels consists of a face sheet (the printing surface), adhesive, and a carrier sheet:

- The face sheet must follow the plain paper specification.
- The face sheet surface must cover the entire carrier sheet, and no adhesive should come through on the surface.

You can print continuously with label paper. However, this could affect the media feed, depending on the media quality and printing environment. If problems occur, stop the continuous printing and print one sheet at a time.

Format label data within your application. Try printing your data on a plain sheet of paper first to check placement. Check your application documentation for other information on printing labels.

Capacity	**Tray 1**	Up to 50 label sheets, depending on their thickness
Orientation	Face up	
Type	Check http://printer.konicaminolta.net/support (click on "Answer Base") for currently approved media.	
Driver Media Type	Labels	
Weight	16–90 lb (60–163 g/m²)	
Duplexing	Not supported	

Use label sheets that are

- Recommended for laser printers
- Letter or A4 size (adhesive label stock)

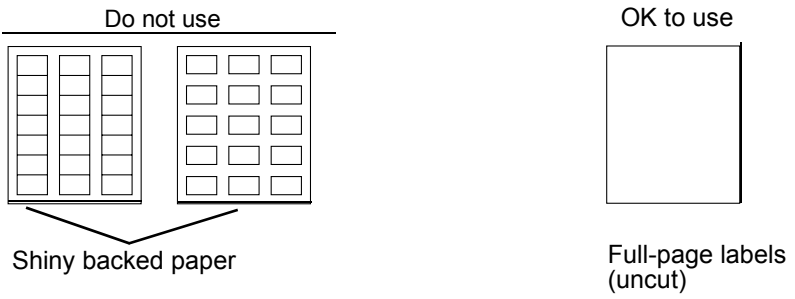
Do not use label sheets that

- Have labels that easily peel off
- Have backing sheets that have peeled away or have exposed adhesive

Attention

Labels that easily peel off their backing sheetsand labels with exposed adhesive may stick to the fuser and cause media jams.

- Are precut or perforated



Letterhead and Memo Media

Format letterhead or memo data within your application. Try printing your data on a plain sheet of paper first to check placement.

Capacity	**Tray 1**	Up to 200 sheets, depending on their size and thickness
Orientation	Face up	
Type	Check http://printer.konicaminolta.net/support (click on "Answer Base") for currently approved media.	
Driver Media Type	Plain paper	
Weight	16–24 lb bond (60–90 g/m²)	
Duplexing	See page 11 for supported sizes (face up—top of page first).	

Postcards

Format postcard data within your application. Try printing your data on a plain sheet of paper first to check placement.

Capacity	**Tray 1**	Up to 50 postcards, depending on their thickness
Orientation	Face up	
Type	Check www.minolta-qms.com/support (click on "Answer Base") for currently approved media.	
Driver Media Type	Postcard	
Weight	16–90 lb (60–163 g/m²)	
Duplexing	Not supported	

Use postcards that are

- Recommended for laser printers

Do not use postcards that are

- Coated
- Designed for inkjet printers
- Precut or perforated
- Warped

If postcards are warped, press on the warped area before putting them in Tray 1. Preprinted or multicolored postcards may cause media jams.

Transparencies

Attention

Use only the KONICA MINOLTA-approved media. Using unsupported transparencies will result in damaging your printer and in voiding your warranty. Check www.konicaminolta.net/printer/ for currently approved media. To order approved transparency media, go to www.q-shop.com.

Do not fan transparencies before loading them. Resulting static electricity may cause printing errors.

Do not handle transparencies too much. If you touch the face of the transparencies with your bare hands, print quality may be affected.

Keep the media path clean. Transparencies are especially sensitive to a dirty media path. If there are shadows on either the top or the bottom of the sheets, see chapter 7, "Maintaining the Printer".

Remove transparencies as soon as possible from the output tray to avoid static buildup.

You can print continuously with transparencies. However, this could affect the media feed, depending on the media quality, static buildup, and printing environment.

Format the information to be printed on the transparencies within your application. Try printing your data on a plain sheet of paper first to check placement.

If you have problems feeding 50 sheets, try loading only 1–10 sheets at a time. Loading a large number of transparencies at a time may cause static buildup, thus causing feeding problems.

Capacity	**Tray 1**	Up to 50 transparencies, depending on their thickness
Orientation	Face up	
Type	Check http://printer.konicaminolta.net/support (click on "Answer Base") for currently approved media. To order approved transparency media, go to www.q-shop.com.	
Driver Media Type	Transparency	
Duplexing	Not supported	

Use transparencies that are

- Approved by KONICA MINOLTA

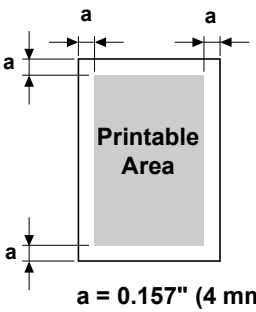
Do not use transparencies that

- Have static electricity that will cause them to stick together

What Is the Guaranteed Imageable (Printable) Area?

The printable area on all media sizes is up to 0.157" (4 mm) from the edges of the media.

Each media size has a specific imageable area, the maximum area on which the printer can print clearly and without distortion.



a = 0.157" (4 mm)

This area is subject to both hardware limits (the physical media size and the margins required by the printer) and software constraints (the amount of memory available for the full-page frame buffer). The guaranteed imageable (printable) area for all media sizes is the page size minus 0.157" (4 mm) from all edges of the media.

Nonguaranteed Area—Media Longer Than 11.7" (297 mm)

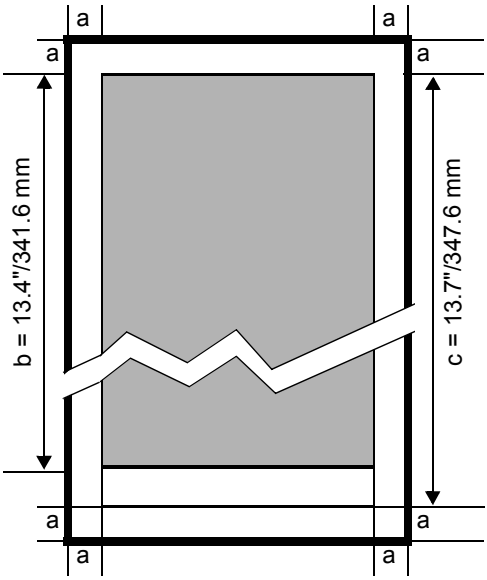
Any media longer than 11.7" (297 mm) has an additional nonguaranteed area of 0.236" (6 mm) on the bottom of each page.

Color printing starts 0.157" (4 mm) from the top of the page and extends as far as 13.4" (341.6 mm). Monochrome printing starts 0.157" (4 mm) from the top of the page and extends as far as 13.7" (347.6 mm).

a = nonprintable area (0.157"/4 mm)

b = color guaranteed printable area = up to 13.4"/ 341.6 mm

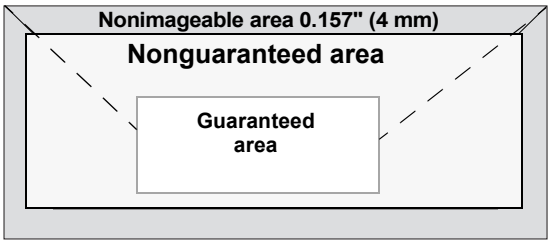
c = monochrome guaranteed printable area = up to 13.7"/ 347.6 mm



Imageable Area—Envelopes

Envelopes have a nonguaranteed flap area that varies with envelope type.

Envelope print orientation is determined by your application.



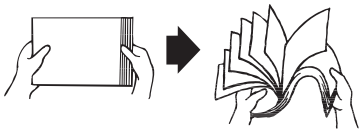
Page Margins

Margins are set through your application. Some applications allow you to set custom page sizes and margins while others have only standard page sizes and margins from which to choose. If you choose a standard format, you may lose part of your image (due to imageable area constraints). If you can custom-size your page in your application, use those sizes given for the imageable area for optimum results.

Loading Media

How do I load media?

Take off the top and bottom sheets of a ream of paper. Holding a stack of approximately 200 sheets at a time, fan the stack to prevent static buildup for the paper before inserting it in a tray.

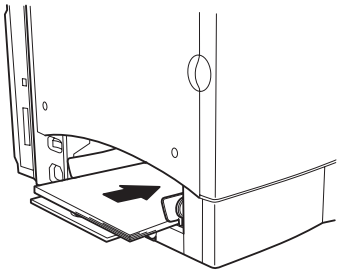


Do not fan transparencies.

Attention

Although this printer was designed for printing on a wide range of media types, it is not intended to print exclusively on a single media type except plain paper. Continuous printing on media other than plain paper (envelopes, labels, thick stock, postcard, letterhead, or transparencies) may adversely affect print quality or reduce engine life.

When refilling media, first remove any media remaining in the tray. Stack it with the new media, even the edges, then reload it.



Tray 1 (Multipurpose Tray)

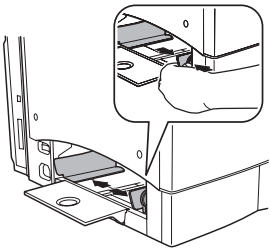
All supported media sizes and types can be printed from Tray 1.

See “Media Specifications” on page 11 for more information about media.

Plain Paper

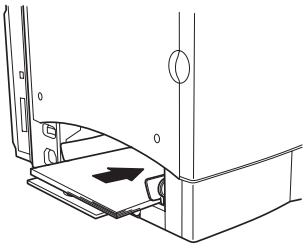
1 If you already have media in Tray 1 and want to change it, remove the media from Tray 1.

2 Adjust the media guides to fit the appropriate media sizes.

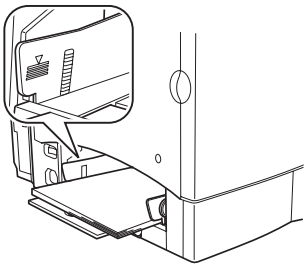


3 Load the media face up, short edge (or letterhead) first.

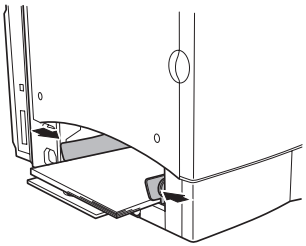
Often, an arrow on the paper package label indicates the face-up (printing) side of the paper.



A fill limit mark is provided on the inside of the media guides on Tray 1 (the multipurpose tray). Tray 1 holds 200 sheets of 22 lb bond (80 g/m²) paper.



4 Slide the media guides up against the edge of the media.



Attention

Always adjust the media guides after inserting the media. Media guides that are not properly adjusted can result in poor print quality, media jams, or printer damage.

5 In the printer driver, select the appropriate media mode. Then print the job.

Other Media

When loading media other than plain paper, set the media mode (Envelope, Label, Thick Stock, Postcard, Letterhead, or Transparency) in the driver.

For optimum printing results it's important to specify the type of media loaded into Tray 1.

Envelopes

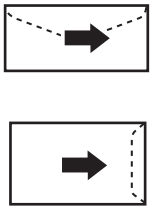
1 Flex the envelope stack (including the edges) to remove any stiffness.

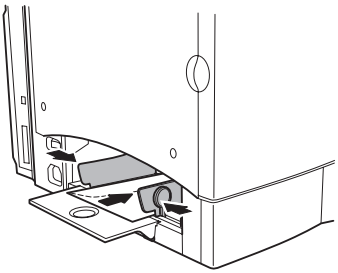
2 Place the envelopes on a flat surface, and flatten them by pressing down the corners.

3 Correct any bent corners, and then tap the envelopes on a flat surface to align them.

4 Place the envelope stack into Tray 1 with the flap-side underneath. If the flap is on the short end of the envelope, insert it into the printer first.

Print a single envelope to check the orientation before printing multiple copies.





5 Adjust the media guides to the width of the envelopes.

Make sure the guides are snug enough to keep the envelopes straight, but not so tight that they buckle the envelopes.

6 In the printer driver, select Envelope mode. Then print the job.

7 Open the flap of each envelope immediately (before it cools) after the envelope is delivered to the output tray.

Duplexing

How do I print back-to-back (duplex)?

Select paper with high opacity for duplex (2-sided) printing. Opacity refers to how effectively paper blocks out what is written on the opposite side of the page. If the paper has low opacity (high translucency), then the printed data from one side of the page will show through to the other side. Check your application for margin information. For best results, print a small quantity to make sure the opacity is acceptable.

Duplex (2-sided) printing can be done manually or can be done automatically with the duplex option installed and selected.

Attention

Only plain paper, 16–24 lb (60–90 g/m^2) can be autoduplexed. See "Media Specifications" for supported sizes.

Duplexing custom-sized media, envelopes, labels, postcards, thick stock, or transparencies is not supported.

How do I autoduplex?

Verify that the duplex option is installed on the printer, and check your application to determine how to set your margins for duplex printing.

1 To print duplex (both sides of the sheet), load the media printing-side up with the top of the media toward the back of the tray.

In autoduplexing, the back side is printed first and the front side is printed last.

2 Set the driver for the duplex layout you prefer.

Long Edge creates a document that flips horizontally as in a loose-leaf notebook; Short Edge creates a document that flips vertically, as on a clipboard.

3 Click **OK**.

Output Tray

All media is output to the output tray on top of the printer. The face-down output tray has a capacity of 150 sheets (legal-size) or 200 sheets (letter/A4) of 22 lb (80 g/m^2) bond paper.

If the media is stacked too high, your printer may experience media jams, excessive media curl, or static buildup.

Remove transparencies as soon as possible from the output tray to avoid static buildup.

Media Storage

How do I store media?

- Keep media on a flat, level surface in its original wrapper until it is time to load it.

  Media that has been stored for a long time outside of its packaging may dry up too much and cause jamming.
- If media has been removed from its wrapper, place it in its original packaging and store in a cool, dark place on a level surface.
- Avoid moisture, excess humidity, direct sunlight, excess heat (above 95°F/35°C), and dust
- Avoid leaning against other objects or placed in an upright position

Before using stored media, do a trial printing and check print quality.

Additional Assistance

Where can I order KONICA MINOLTA-approved media or get more information?

Check http://printer.konicaminolta.net/support (click on "Answer Base") for currently approved media. To order approved transparency media, go to www.q-shop.com.

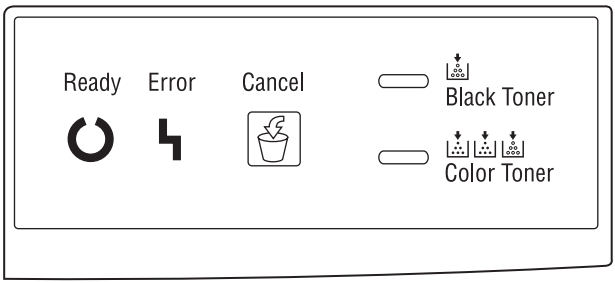
See the *Service & Support Guide* for a list of sources of service and support for many areas of the world. The most current worldwide information can be found at www.konicaminolta.net/printer/.

3 Working with the Printer

About the Control Panel

The control panel, located on the top of the printer, allows you to direct the printer's operation. In addition, it displays the current status of the printer, including any condition that needs your attention.

- One key allows you to control the printer configuration through access to frequently used printer functions.
- Four indicator lights (LEDs) provide printer status information.



Control Panel Key

Key	Function
Cancel	Cancels printing when held down for at least 5 seconds. Overrides a media size/type mismatch when held down for less than 5 seconds. Resets the printer to factory defaults when held down for at least 20 seconds while the printer's front door is open.

Indicator Lights

Ready	Error	**Printer Status****
Green LED	**Orange LED**	
Off	Off	Power off
Blinking slowly*	Off	Energy Saver mode
On	Off	Printer idle
Blinking normally**	Off	Processing data Printing
Blinking normally**		Communication error
Blinking rapidly***	Off	Warming up Calibrating
Off	On	Cover open
Off	Binking slowly*	No paper in Tray 1
Off	Blinking normally**	Media jam Waste toner bottle is full
Off	Blinking rapidly***	Fatal error Service Call
On	Blinking slowly*	Waste toner bottle is nearly full Drum cartridge life has nearly expired
On	Blinking normally**	OPC drum cartridge life has expired
Blinking rapidly***		Insert media Media size mismatch

*Blinking slowly 1 blink every 2.4 seconds
**Blinking normally 1 blink every 1.2 seconds
***Blinking rapidly 2 blinks every 1.2 seconds

****For details, check the Status Display utility.
Refer to “Working with the Status Display” on page 40.

Black Toner Orange LED	Condition
Blinking normally**	Black toner low
On	Black toner empty
Blinking rapidly***	Ready to change black toner cartridge Refer to “Replacing a Toner Cartridge” on page 49.
*Blinking slowly ***Blinking rapidly	1 blink every 2.4 seconds 2 blinks every 1.2 seconds

Color Toner Orange LED	Condition
Blinking normally**	Color toner low
On	Color toner empty
Blinking rapidly***	Ready to change color toner cartridge Refer to “Replacing a Toner Cartridge” on page 49.
*Blinking slowly ***Blinking rapidly	1 blink every 2.4 seconds 2 blinks every 1.2 seconds

4

Working with the Printer Driver

Introduction

The printer driver functions are summarized in this chapter.

For information on connecting the printer to the computer, refer to “Connect the Interface Cable” in the *Installation Guide*. For information on installing the printer driver, refer to chapter 1, “Software Installation”, in this manual.

Displaying Printer Driver Settings

In addition to the printer driver tabs described in this section, the Windows operating system also uses tabs. The General and Details tabs are automatically determined by the operating system and are therefore not described in this manual.

Refer to the printer driver’s online help for complete information on all driver features.

Displaying Settings in Windows 2000/XP

1 From the **Start** menu, choose **Settings** and then **Printers** to display the **Printers** dialog box.

2 Right-click the magicolor2300W printer icon and choose **Printing Preferences...**.

Displaying Settings in Windows Me/98

1 From the **Start** menu, choose **Settings** and then **Printers** to display the **Printers** dialog box.

2 Right-click the magicolor2300W printer icon and choose **Properties**.

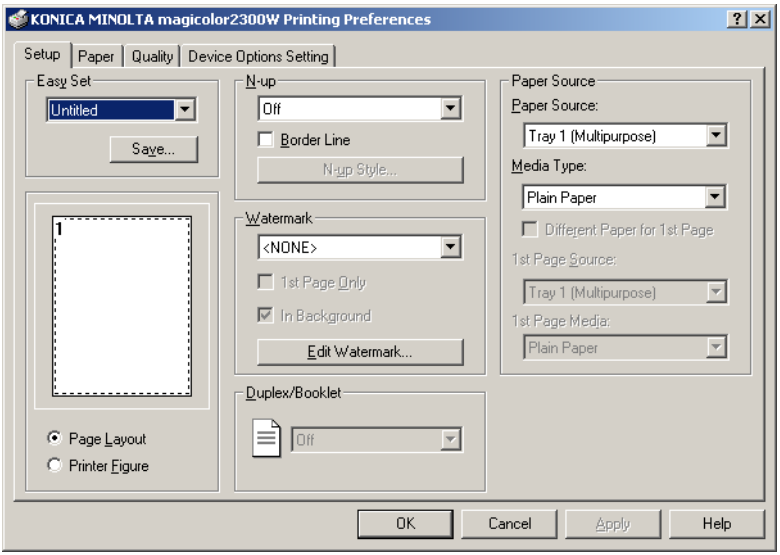
3 Choose the **Printer Properties** tab.

Common Settings on All Tabs

Save [Easy Set]

1 To save the current settings, click **Save....**

Multiple settings can be saved. Select your preferred settings, and type a title in the dropdown list box. The saved settings can later be selected from the dropdown list.



2 Select **Default** from the dropdown list to reset the functions of the tab to their original values.

Page Layout

Click this radio button to display a sample of the page layout in the figure area. This figure shows the following:

- Imaging area
- Paper size
- Orientation
- N-up
- Watermark
- Duplex/Booklet

Refer to the printer driver's online help for complete information on all of these features.

Printer Figure

Click this radio button to display an image of the printer in the figure area.

Common Buttons

OK

Click this button to exit the Properties dialog box, saving any changes made.

Cancel

Click this button to exit the Properties dialog box without saving any changes made.

Apply

Click this button to save all changes without exiting the Properties dialog box.

***Apply** is displayed when the Properties dialog box is opened from the Printer folder. **Apply** is not displayed if the Properties dialog box is opened from the application.*

Help

Click this button to view online help.

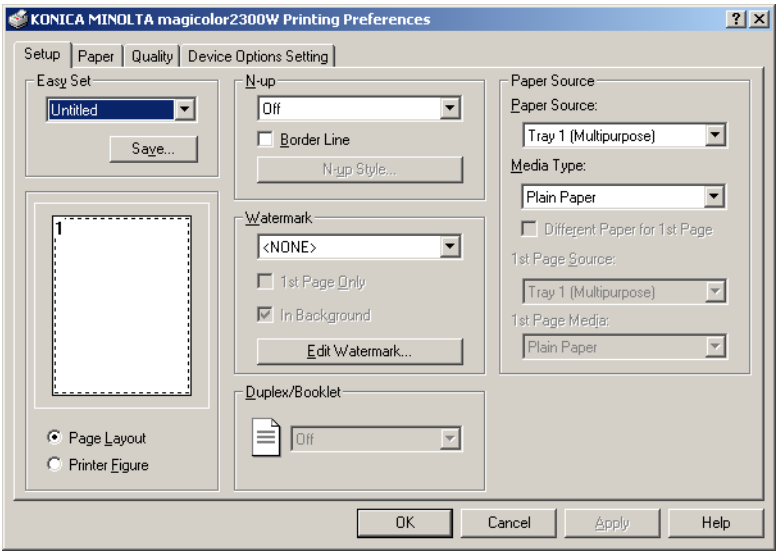
Help on a Specific Item

Click ? and then click on a feature in the driver to see more information about that feature.

Close

Click ✕ to close the Properties dialog box without saving any changes made.

Setup Tab

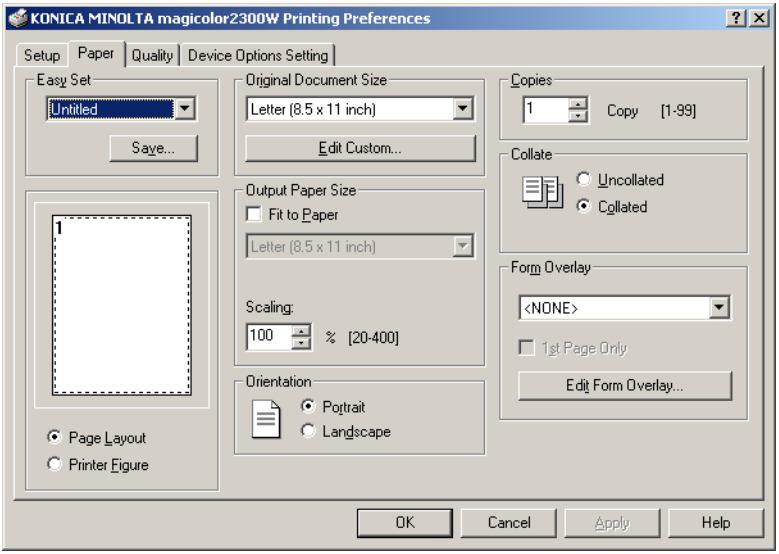


This tab allows you to:

- Print several pages of a document on the same print page (N-up)
- Provide printouts with a watermark
- Design and edit custom watermarks
- Specify duplex and booklet printing
- Specify paper source
- Define the type of media

Refer to the printer driver's online help for complete information on all of these features.

Paper Tab

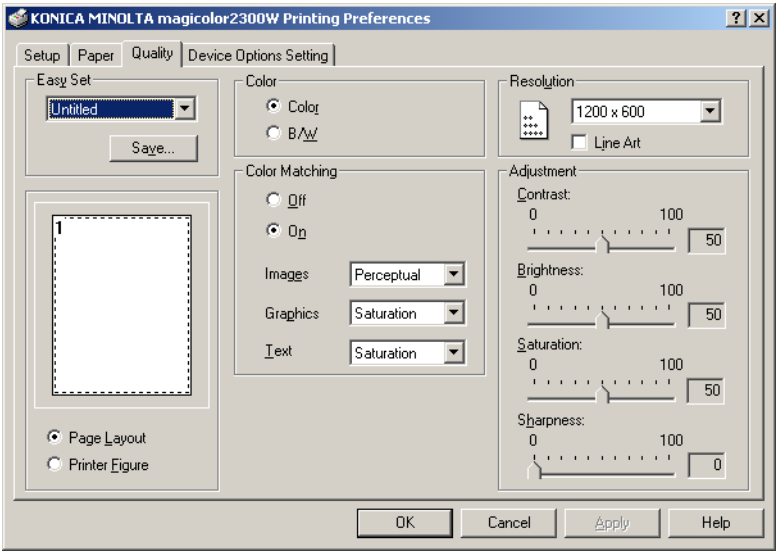


This tab allows you to:

- Select an original document size
- Set up custom paper sizes
- Select the output paper size
- Scale (enlarge/reduce) documents upon printout
- Specify the orientation of the paper
- Specify the number of copies
- Select uncollated/collated
- Print using a form overlay
- Add and edit form overlays

Refer to the printer driver's online help for complete information on all of these features.

Quality Tab



This tab allows you to:

- Switch between color and monochrome printing
- Specify color matching (Images, Graphics and Text)
- Specify the resolution for the printout
- Control the tones of an image (Contrast)
- Control the darkness of an image (Brightness)
- Control the color purity of an image (Saturation)
- Control the clarity of an image (Sharpness)

Refer to the printer driver's online help for complete information on all of these features.

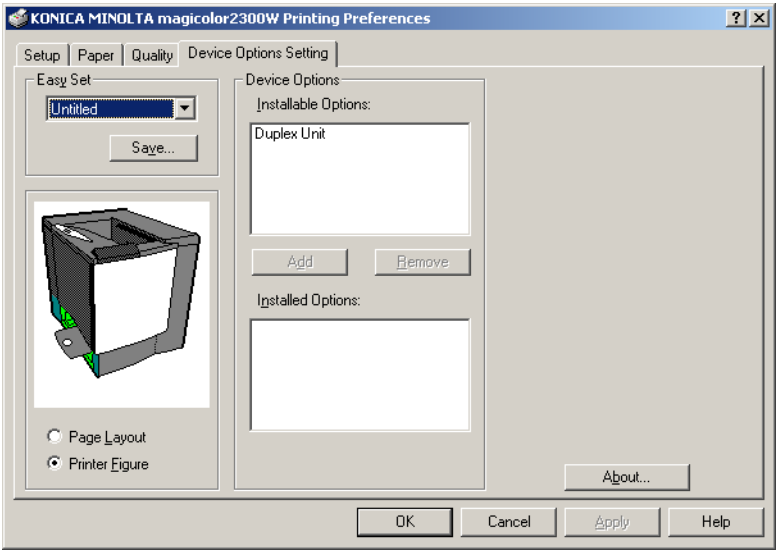
Color Matching

You can specify whether or not to use the Color Matching function, which adjusts the printer's color tones to accurately reproduce the color tones of the monitor.

Choices	Off	Does not use color matching. With certain applications, such as desktop publishing applications, data is color-matched to be the most suitable for the printer. If this type of output setting is used in the application, Color Matching should be turned off.
	On	Uses color matching. If **On** is selected, **Images** (bitmap image data such as photos), **Graphics** (graphic data such as drawings) and **Text** (text data such as written documents) can be set to one of the three color conversion methods*: ■ **Perceptual**: This method is most suitable for photographic images. With this method, the data is smoothly reproduced with minimal brightness variations. ■ **Saturation**: This method is most suitable for business presentations and other similar applications. With this method, the data is reproduced with more vivid tones. ■ **Colorimetric**: This method can be used for any type of application. The data is reproduced with the tones of the original image. However, when data is reproduced on the monitor and the color of some areas cannot be expressed accurately or with the printer colors, those colors are replaced with the closest printer color, so that the difference in the color of those areas is not noticeable.

Notes	The ICM color profile, which is automatically defined when the driver is installed, is used and a color conversion is made in the driver so that sRGB colors can be output. sRGB is a general Windows color space with the color space international standard (IEC61966-2-1) defined by the IEC (International Electrotechnical Commission). There are also additional ICM profiles available on the *Utilities and Documentation* CD-ROM for specific applications, such as Photoshop. Refer to the readme on the CD-ROM for more information. * Colors that can normally be displayed on the monitor include many vivid or bright colors that cannot be reproduced by with the printer. In this case, the colors are compressed with the perceptual, saturation, or colorimetric method to convert them to colors that can be reproducedby the printer.

Device Options Setting Tab



This tab allows you to:

- Activate the duplex option
- View information about the printer driver

Refer to the printer driver's online help for information on all of these functions.

5 Working with the Status Display

Working with the Status Display

The Status Display displays information about the current status of the computer's local printer. If you used the CD-ROM Installer to install the printer driver, the Status Display was also installed. However, if you used Add Printer to manually install the printer driver, Status Display is not installed.

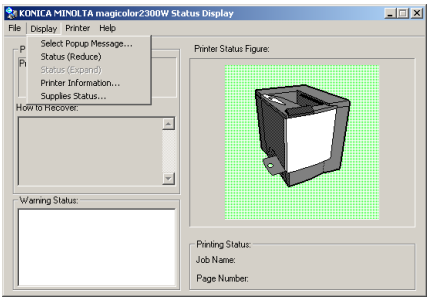
Environment

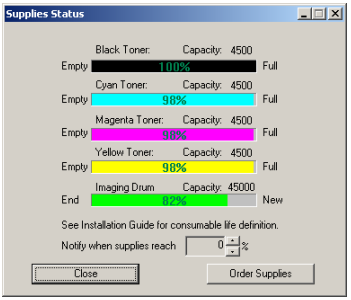
The Status Display functions over parallel and USB connections on all supported Windows operating systems, but only for the default printer.

Opening the Status Display and Showing Supplies Status

1 Double-click the **Status Display** icon in the taskbar. (If the **Status Display** icon does not appear in the taskbar, point to **Programs** in the **Start** menu, and then point to KONICA MINOLTA **magicolor2300W Utilities** and click KONICA MINOLTA **magicolor2300W Status**.)

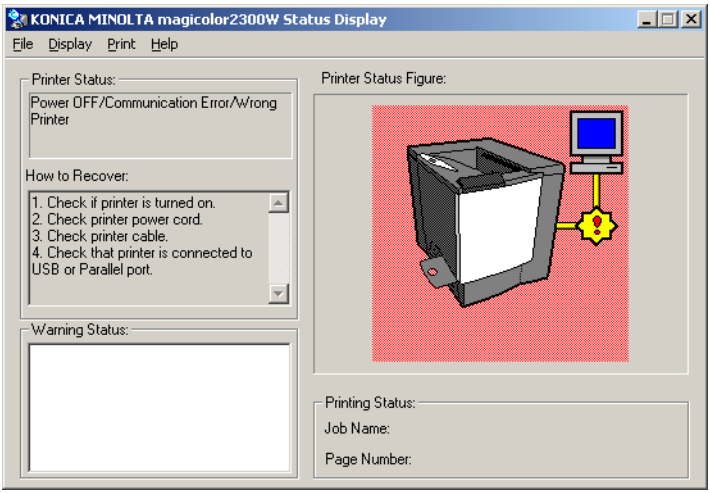
2 From the **Display** menu, choose **Supplies Status** to view remaining consumables life.





Using the Status Display

- When the background of the right-hand printer graphic is green, the printer is in standby mode or a job is printing normally.
- When the background of the right-hand printer graphic is red, there is an error and the job has been interrupted. The status of the printer and the error message are shown in the dialog boxes on the left.


KONICA MINOLTA magicolor2300W Status Display
File Display Print Help
Printer Status:
Power OFF/Communication Error/Wrong Printer
How to Recover:
1. Check if printer is turned on.
2. Check printer power cord.
3. Check printer cable.
4. Check that printer is connected to USB or Parallel port.
Warning Status:
Printer Status Figure:
Printing Status:
Job Name:
Page Number:

The function areas include:

- **Printer Status**—Displays text messages that describe the current operational status of the printer.
- **How to Recover**—Provides you with instructions to correct problems and recover from error conditions.
- **Warning Status**—Displays text messages that warn you of such conditions as low toner.
- **Printer Status Figure**—Shows a graphic representation of the printer and indicates where there is a problem.
- **Printing Status**—Displays the status of the current print job.

Working with the Display Menu

- **Popup Setting**—Allows you to choose which message(s) you want to bring to the foreground when that particular condition occurs on the printer.
- **Reduce**—Decreases the size of the Status Display window.
- **Expand**—Increases the size of the Status Display window.

- **Printer Information**—Displays the total print count, the list of installed options and the memory size.
- **Supplies status**—Displays consumables usage (percentage remaining) for the toner cartridges and OPC drum cartridge.

Refer to the Status Display's online help for information on all of its functions.

Working with the Print Menu

- **Power On Test**—Performs an AIDC (Auto Image Density Control) calibration cycle. Wait until the test is finished, the Ready indicator on the control panel lights up, and the Error indicator goes off (less than 150 seconds).
- **Mode Setting**
  - **Duplex Density**
    Adjusts the density of the second side of the paper when duplex printing.
  - **Energy Saver**
    Sets the length of time until the printer enters Energy Saver mode after it no longer receives print jobs or is not operated. If a print job is received while the printer is in Energy Saver mode, the printer warms up, then returns to normal print mode before starting to print.
  - **Auto Continue**
    When set to **On**, causes the printer to continue printing even if the specified tray is not loaded with paper of the correct size. If the Auto Continue setting is changed during printing, the setting remains valid for future print jobs.
  - **Toner Empty Mode**
    Function that automatically repositions the carousel so that the appropriate toner cartridge can be removed when it is empty.
    Stop mode:
    Select the Toner Empty Mode check box to have the carousel automatically reposition so that the empty toner cartridge can be removed when the Black Toner or Color Toner LED is lit. While a toner LED is lit, print jobs cannot be received. (Any print jobs sent to the printer will be cancelled.)

    Continue mode:
    Clear the Toner Empty Mode check box to have the carousel automatically reposition to the neutral position* when the Black Toner or Color Toner LED is lit.
    *Neutral position: The carousel is in the position where the cyan toner cartridge can be removed.

■ **Toner Replace...**

- **Replacing Toner**
  Allows you to replace a toner cartridge.

1. From the list, select the color of the toner cartridge to be replaced.
2. Click **OK**.
3. Open the front door, and then replace the toner cartridge.

Refer to “Replacing a Toner Cartridge” on page 49 for complete details.

- **Changing Capacity**
  Allows you to replace a toner cartridge capacity setting.

1. Select the Change Capacity only check box.
2. From the list, select the color of the toner cartridge to be change capacity.
3. Select the capacity of the toner cartridge (**1500**[*1] or **4500**[*2])
4. Click **OK**.

*1 Standard-Capacity Toner Cartridge.

*2 High-Capacity Toner Cartridge.

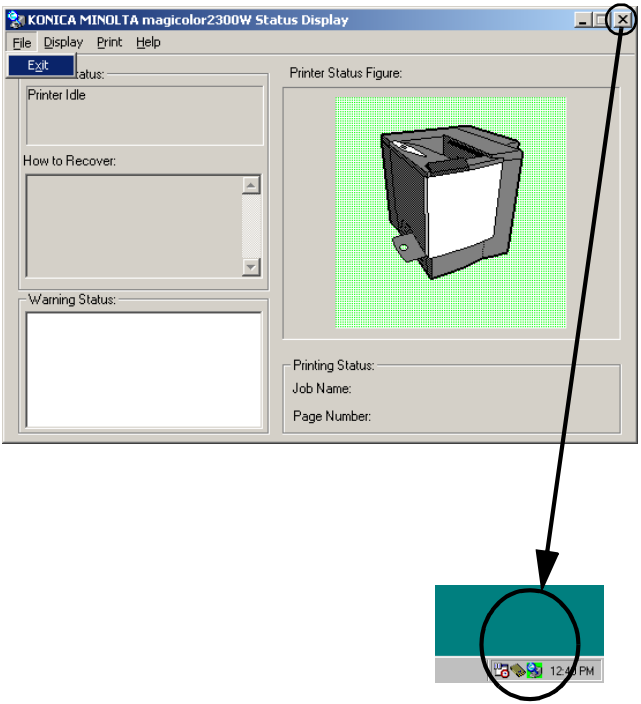
■ **Print Status Sheet**
Prints an LED status Sheet, which lists all LED combinations and their related printer status and error conditions.

■ **Print Config Page**
Prints the detailed information of the configuration page.

Closing the Status Display

To close the Status Display from the **File** menu, choose **Exit**.

If you click the X button in the upper-right corner of the Status Display window to close the window, the Status Display remains available at the right end of the taskbar. Double-click the icon to open it again.



6

Replacing Consumables

Consumable Life Expectancies

Plain Paper

The stated life expectancy of each consumable is based on printing under specific operating conditions such as media type, number of color planes, page size, and page coverage (at normal 5% coverage of letter-/A4-size media). The actual life expectancy will vary depending on these and other printing variables, including continuous or intermittent printing, ambient temperature, and humidity. For current information about consumable life expectancies, refer to http://printer.konicaminolta.net/support, then click on “Answer Base.”

The following messages in the Status Display’s message window indicate that a consumable needs to be replaced.

Message	This item needs replacing by user after...	Comment
`Drum Cartridge End of Life`	Up to 45,000 continuous monochrome or 11,250 continuous four-color pages, or 10,000 intermittent (one-page jobs) monochrome or 7,500 intermittent color pages.	See “Replacing the OPC Drum Cartridge” on page 56.
`COLOR` `Toner Low` or *`COLOR`* `Toner Empty` or `Alert` *`COLOR`* `Toner Cartridge`	**Standard capacity:** Approximately 1,500 single-sided pages per cartridge—yellow, magenta, cyan at 5% coverage of each color.	See “Replacing a Toner Cartridge” on page 49.
	High capacity: Approximately 4,500 single-sided pages per cartridge—black, yellow, magenta, cyan at 5% coverage of each color.	
	Approximately 6,000 single-sided pages per cartridge. The toner cartridge must be replaced to print. (Any print jobs sent to the printer will be cancelled.)	
`Waste Toner Box Full`	Approximately 25,000 continuous monochrome or 21,600 intermittent (one-page jobs) monochrome, or 6,250 continuous or intermittent color pages (based on the standard mode with 5% toner coverage of letter/A4 media).	See “Replacing the Waste Toner Bottle” on page 55.

Special Media

The stated life expectancy of each consumable on page 46 is based on letter-/A4-size plain paper. If you are using special media such thick stock or transparencies, the life expectancy will vary depending on those printing variables and the print speed automatically determined by the thick stock or transparency selection on the driver's Setup Tab.

Consumables (Special Media)	This item needs replacing by user after...
OPC Drum Cartridge	Up to 15,000 continuous monochrome or 7,500 continuous four-color pages, or 5,000 intermittent (one-page jobs) monochrome or 4,100 intermittent color pages.
Toner Cartridge (pages per cartridge at 5% coverage of each color)	**Standard capacity (black):** Approximately 1,500 continuous single-sided pages or 1,000 intermittent single-sided pages (if monochrome black printing only).
	Standard capacity (yellow, magenta, cyan): Approximately 1,500 continuous or intermittent single-sided pages.
	High capacity (black): Approximately 4,500 continuous single-sided pages or 3,200 intermittent single-sided pages (if monochrome black printing only).
	High capacity (yellow, magenta, cyan): Approximately 4,500 continuous or intermittent single-sided pages.
Waste Toner Box	Approximately 25,000 continuous or 14,400 intermittent (one-page jobs) monochrome pages or 6,250 continuous or intermittent color pages.

For current information about consumable life expectancies, refer to http://printer.konicaminolta.net/support, then click on "Answer Base."

Auto-Image Density Control (AIDC)

The printer periodically pauses for the color calibration procedure (also known as the Auto-Image Density Control [AIDC] cycle). This process is provided to make sure reliable printer operation with optimum output quality.

This 150-second calibration cycle automatically occurs after the installation of a new toner cartridge or OPC drum cartridge.

If you open the door before the Ready indicator on the control panel lights up and the Error indicator goes off, the printer stops and repeats the calibration cycle.

The printer also pauses to do a 90-second AIDC cycle after 200 1-sided pages of a continuous print run, and a 150-second AIDC cycle when waking up from ENERGY SAVER with more than 1,000 pages since the last AIDC cycle or when there has been an environmental change such as in temperature or humidity.

Toner Cartridge Life

A high-capacity toner cartridge contains enough toner (yellow, magenta, cyan, or black) to print a maximum of 4,500 (at normal 5% page coverage) simplex letter/A4-size pages of continuous print. The standard-capacity toner cartridge contains enough toner to print a maximum of 1,500 (at normal 5% page coverage) simplex letter/A4-size pages of continuous print.

With heavier coverages, the approximate maximum capacities will decrease:

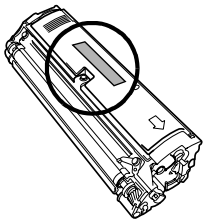
How do I know if I need to replace the toner?

When it's time to replace the toner, *COLOR* `Toner Low` displays in the Status Display. Printing can continue even though the warning appears. However, the color gradually fades out, so replace the toner cartridge as soon as possible.

You can also access the toner cartridge supplies status using the Status Display (refer to "Working with the Status Display" on page 40).

How can I tell if a toner cartridge is standard or high capacity?

Refer to the label on the toner cartridge.



Replacing Consumables

Attention

Failure to follow instructions as outlined in this manual could result in voiding your warranty.

Refilled Toner Cartridges

Attention

Do not use refilled toner cartridges. Any damage to the printer or quality problems caused by a refilled toner cartridge will void your warranty.

Replacing a Toner Cartridge

Characters and images are created in your laser printer through a photosensitive process that applies toner to the Optical Photo Conductor (OPC) drum cartridge (which functions like photographic film). Your printer uses four toner cartridges: black, yellow, magenta, and cyan. Handle the toner cartridges carefully to avoid spilling toner inside the printer or on yourself.

The toner is nontoxic. If you get toner on your hands, wash them in cool water or a neutral detergent. If you get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off.

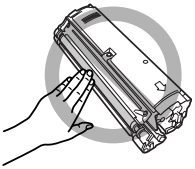
WARNING!

If you get toner in your eyes, wash it out immediately and consult a doctor. Material Safety Data Sheets (MSDS) information can be found at www.konicaminolta.net/printer/ (click on "Answer Base").

Attention

Do not hold a toner cartridge vertically.

Do not touch the toner roller surface. This could lower image quality.



Keep toner cartridges:

- In their packaging until you're ready to install them.
- In a cool, dry location away from sunlight (due to the heat it generates).

  The maximum storage temperature is 95°F (35°C) and the maximum storage humidity is 85% (noncondensing). If the toner cartridge is moved from a cold place to a warm, humid place, condensation may occur, degrading print quality. Allow the toner to adapt to the environment for about one hour before use.

- Level during storage.

  Do not stand or store cartridges on their ends or turn them upside down; the toner inside the cartridges may become caked or unequally distributed.

- Away from salty air and corrosive gases such as ammonia.

Procedure

You can use this procedure to replace either an empty toner cartridge or one that is not empty.

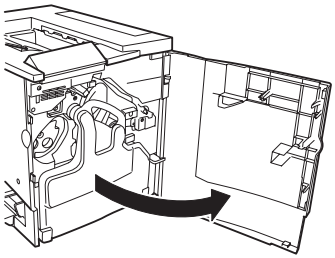
You may want to replace a toner cartridge that is not empty if the consumable monitor in your printer driver or the Status Display indicates that a particular color cartridge is running low and you need to print a lengthy job when no one will be available to change the cartridge.

Attention

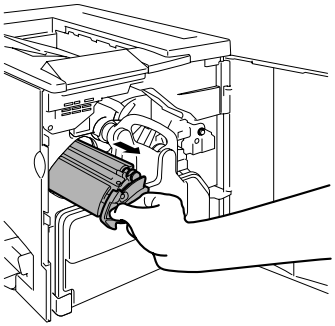
Be careful not to spill toner while replacing a toner cartridge. If toner spills, immediately wipe it off with a soft, dry cloth.

1. Open the Status Display, and then check which toner color is empty.
2. From the **Print** tab choose **Toner Replace...**
3. Make sure that the Change Capacity only check box is cleared.
4. In the **Color** list box, select the color of the toner cartridge to be replaced (**CYAN**, **MAGENTA**, **YELLOW**, or **BLACK**).
5. Click **OK**.
6. When the toner indicator on the control panel starts flashing, open the printer's front door.

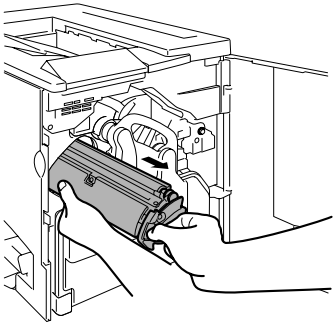
   The carousel is automatically repositioned so that the appropriate toner cartridge can be removed.



7 Insert you thumb and index finger into the two holes in the front of the toner cartridge, and then pull the cartridge straight out about 6" (15 cm).



8 Support the middle of the cartridge with your left hand, and then pull out the cartridge.



WARNING!

Contact toner_recycle@bpus.konicaminolta.us for toner recycling availability, or dispose of the used toner cartridge according to your local regulations. Do not dispose of it by burning.

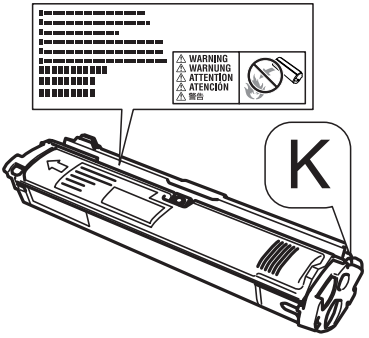
Recyclable Material

9 Remove the new toner cartridge from its shipping carton.
Check the color, size (volume) and logo written on the box of the toner cartridge to be installed.

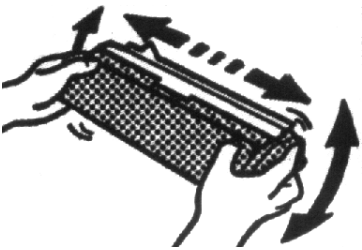
- C/Cyan, M/Magenta, Y/Yellow, K/Black
- H/High-Capacity (4500), S/Standard-Capacity (1500)
- KONICA MINOLTA, MINOLTA-QMS.

10 Check the color and size (volume) written on the toner cartridge to be installed.

- Color: C/Cyan, M/Magenta, Y/Yellow, K/Black
- Standard-Capacity Toner cartridge:
  Standard-capacity toner cartridge (1500)
- High-Capacity Toner Cartridge:
  High-capacity toner cartridge (4500)

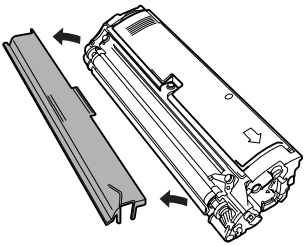


11 Holding both ends of the toner cartridge, shake it side-to-side a few times to distribute the toner evenly.



12 Remove the yellow protective cover marked “Remove.”

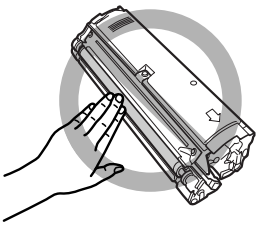
Each toner cartridge has a colored end that corresponds to a color inside the cartridge slots. Always install the toner cartridge in the slot of the same color.



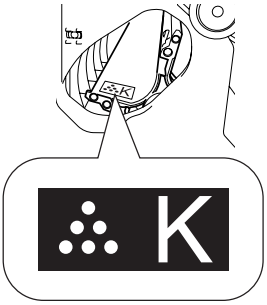
Attention

Do not touch the toner roller surface. This could lower image quality.

Do not hold the toner cartridge vertically.



13 Verify that the color of the label in the toner compartment is the same as the color of the toner in the cartridge.

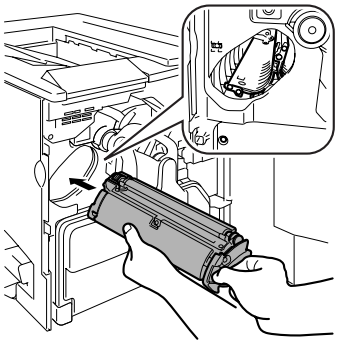


Attention

Installing a cartridge with toner of a different color than the label in the compartment may damage the printer.

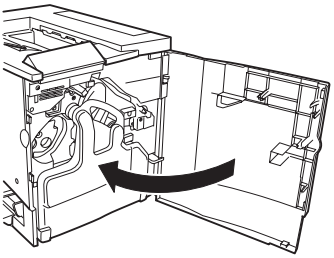
14 Supporting the middle of the cartridge with your left hand, place the thumb and index finger of your right hand into the two holes in the front of the toner cartridge, and then insert the cartridge so that the guides on the cartridge fit into the rails in the cartridge compartment in the carousel.

15 Gently push the new toner cartridge into the printer.



16 Close the printer's front door.

17 After about 150-seconds "Printer Idle" appears in the Status Display.



The printer must complete a 150-second calibration cycle after any consumable has been replaced. If you open the door before the Ready indicator on the control panel lights up and the Error indicator turns off, the printer stops and repeats the calibration cycle.

18 If the logo written on the box of the toner cartridge to be installed is **KONICA MINOLTA**, proceed to step 24. If the logo is **MINOLTA-QMS**, continue to step 19 to set the capacity of the toner cartridge.

19 From the **Printer** menu choose **Toner Replace..**.

20 Select the **Change Capacity Only** check box.

21 In the **Color** list box, select the color of the toner cartridge to be replaced (**CYAN**, **MAGENTA**, **YELLOW**, or **BLACK**).

22 Click the Capacity option (1500 or 4500).

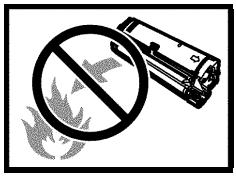
23 Click **OK**.

24 From the **Display** menu, choose **Supplies Status** to display the Supplies Status dialog box.
Check the capacity of the installed toner cartridge.

25 Place the used toner cartridge in the box that the new toner cartridge was packed in.

Attention

For toner recycling availability, contact toner_recycle@bpus.konicaminolta.us, or dispose of the used toner cartridge according to your local regulations. Do not dispose of it by burning.



Replacing the Waste Toner Bottle

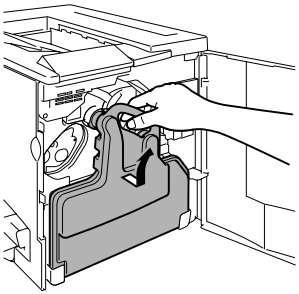
When the waste toner bottle becomes full, the message `Waste Toner Box Full` appears in the Status Display. The printer stops and will not start again until the waste toner bottle is replaced.

Removing the Used Waste Toner Bottle

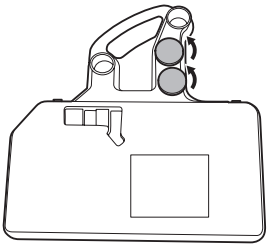
1 Turn off the printer, then open the printer's front door.

2 Grasp the waste toner bottle's handle and then lift the bottle out and up to remove it.

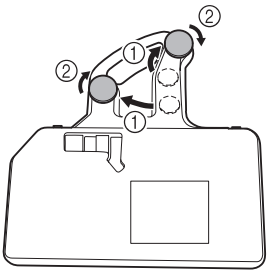
Keep the waste toner bottle upright so the toner does not spill.



3 Remove the two caps by turning them counterclockwise.



4 Secure the two caps onto the two holes by turning them clockwise.



5 Dispose of the used waste toner bottle.

WARNING!

Dispose of the used waste toner bottle properly according to your local regulations (do not dispose of it by burning).

Installing a New Waste Toner Bottle

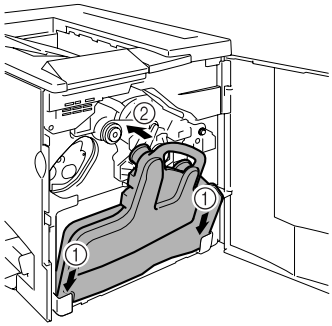
1 Remove the new waste toner bottle from its carton.

2 Insert the bottom of the waste toner bottle ① into its installation position in the printer.

3 Push the top of the waste toner bottle ② into position until it is firmly seated.

4 Close the printer's front door.

If the waste toner bottle is not correctly installed or the transfer belt release lever is at its top position (11 o'clock), the front door cannot be closed.



The printer must complete a 150-second calibration cycle after any consumable has been replaced. If you open the door before the Ready indicator on the control panel lights up and the Error indicator goes off, the printer stops and repeats the calibration cycle.

Replacing the OPC Drum Cartridge

When the OPC drum cartridge is worn out, the message `Drum Cartridge End of Life` appears in the Status Display. Printing can continue even after this message appears; however, since print quality is reduced, the OPC drum cartridge should be replaced immediately.

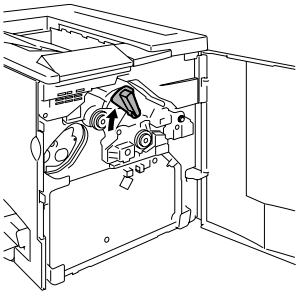
The OPC drum cartridge life is directly related to the number of rotations of the drum. Longest drum life is achieved with continuous printing. Intermittent printing with small job sizes requires cleaning rotations before and after each job, and subsequently will impact OPC life.

You can also access the OPC drum cartridge life status using the Status Display (refer to "Working with the Status Display" on page 40).

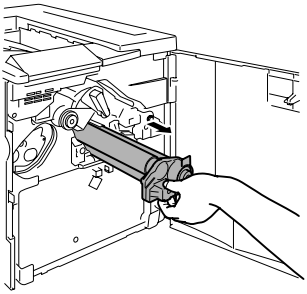
Removing the Used OPC Drum Cartridge

1 With the front door open and the used waste toner bottle removed (see page 55), rotate the transfer belt unit release lever clockwise to the top (11 o'clock) position.

This releases the pressure on the transfer belt unit.

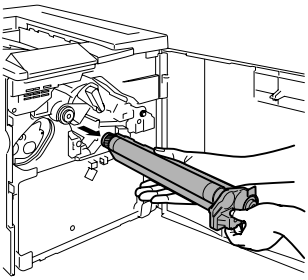


2 Grasp the release lever for the OPC drum cartridge, and then pull the cartridge straight out about 6 inches (15 cm).



3 Support the bottom of the drum with your hand, then carefully pull the cartridge toward you and remove it.

Dispose of the cartridge properly according to your local regulations.



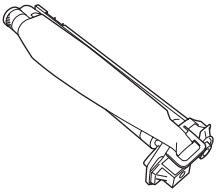
Installing a New OPC Drum Cartridge

Attention

The OPC drum is extremely sensitive to bright light and direct sunlight. Always leave it in its protective bag until you're ready to install it. Any exposure to light should be avoided, or permanent damage could result.

Any damage resulting from mishandling of the OPC drum will void the warranty of the OPC drum cartridge. Handle the cartridge carefully by its sides so you don't touch the surface (the green part) of the drum. The drum is also extremely sensitive to hand oils and scratches, both of which reduce print quality.

1 Remove the new OPC drum cartridge from its carton.



Attention

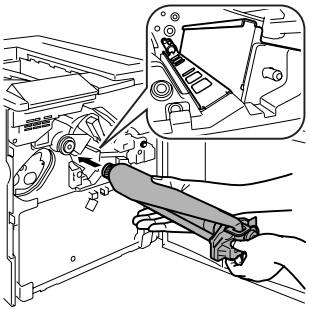
Keep the protective sheet on the cartridge. Do not touch the protective sheet on the photosensitive (green) surface or scratch the surface. This could lower image quality.

Make sure the transfer belt release lever is still set to its top position (11 o'clock).

2 Holding the OPC drum cartridge level, place the front end of the OPC drum cartridge guide into the rail.

3 Carefully push the OPC drum cartridge in.

When installing the OPC drum cartridge, be sure not to press on the release lever. If the lever is pressed during installation, the lock is released, and the cartridge is not installed correctly.



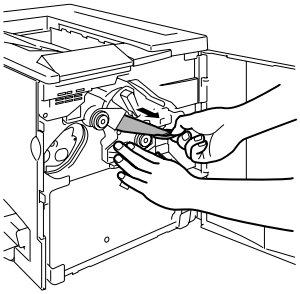
Attention

The cartridge should slide easily into the printer. Don't force it.

4 Press on the front handle of the OPC drum cartridge with one hand and hold the handle of the OPC protective cover with the other hand.

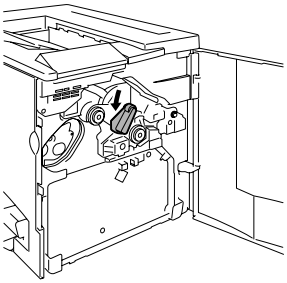
5 Peel the protective cover straight toward you.

Dispose of it properly according to your local regulations.



6 Rotate the transfer belt release lever counterclockwise to its correct position (7 o'clock).

This lowers the transfer belt.



Attention

If the transfer belt release lever is not at its correct position (7 o'clock), the waste toner bottle cannot be installed.

7 Reinstall the waste toner bottle you removed (see page 56).

8 Close the printer's front door.

The printer must complete a 150-second calibration cycle after any consumable has been replaced. If you open the door before the Ready indicator on the control panel lights up and the Error indicator turns off, the printer stops and repeats the calibration cycle.

Ordering Consumables

Choosing the right consumables for your printer not only increases its reliability and performance, but also minimizes the risk of damage. For example, only KONICA MINOLTA toner cartridges are designed to meet the exact specifications of your KONICA MINOLTA printer, giving maximum performance, efficiency, and long life. Toner cartridges and other consumables for your printer are available from your local vendor or Q-SHOP (www.q-shop.com).

See the *Service & Support Guide* for a list of sources of service and support in many areas of the world. The most current worldwide information can be found at www.konicaminolta.net/printer/.

7

Maintaining the Printer

Maintaining the Printer

Attention

Read all caution and warning labels carefully, making sure to follow any instructions contained in them. These labels are located on the inside of the printer's doors and the interior of the printer body.

Handle the printer with care to preserve its life. Abuse may cause damage and void your warranty. If dust and paper scraps remain on the inside or outside of the printer, printer performance and print quality will suffer, so the printer should be cleaned periodically. Keep the following guidelines in mind.

WARNING!

Turn off the printer, unplug the power cord, and disconnect all interface cables before cleaning. Do not spill water or detergent into the printer; otherwise the printer will be damaged and an electric shock may occur.

- Either clean the printer before use, or allow time after unplugging it to allow the fuser unit to cool down.

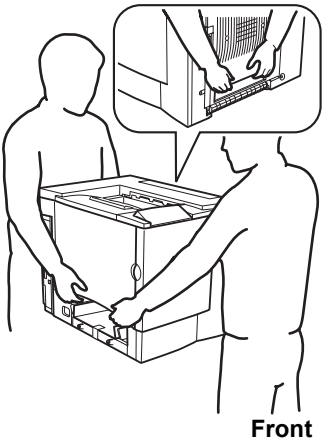
Attention

The fuser unit is hot. When the right door is opened, the fuser unit temperature drops gradually (one hour wait time).

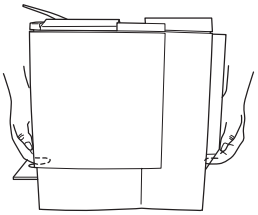
- Be careful when cleaning the inside or removing paper jams, as the fuser unit and other internal parts may become very hot.
- Do not place anything on the top of the printer.
- Use a soft cloth to clean the printer.
- Never spray cleaning solution directly on the printer's surface; the spray could penetrate through the air vents of the printer and damage the internal circuits. Avoid using abrasive or corrosive solutions or solutions that contain solvents, (such as alcohol and benzene) to clean the printer.
- Always test any cleaning solution (such as mild detergent) on a small area of your printer to check the solution's performance.
- Never use sharp or rough implements, such as wire or plastic cleaning pads.
- Always close the printer doors gently. Never expose the printer to vibrations.
- Do not cover the printer immediately after using it. Turn it off and wait until it cools down.
- Do not leave the printer's covers and doors open for any length of time, especially in well-lit places; light may damage the OPC.

- Do not open the printer during printing.
- Do not tap paper stacks on the printer.
- Do not tilt, lubricate, or disassemble the printer.
- Do not touch the electrical contacts, gears, or laser beam devices. Doing so may damage the printer and cause the print quality to deteriorate.
- Keep media in the output tray at minimum level. If the media stacks too high, your printer may experience media jams and excessive media curl.
- Make sure two people are available to lift the printer when moving it.

  When moving the printer, keep the printer level to avoid toner spillage.



- When lifting the printer, grasp the handles at the top of the Tray 1 and at the bottom-right side of the printer (or the handles at the bottom of the duplex unit if it is installed).



- If you get toner on your skin, wash it off with cool water and neutral detergent.

WARNING!

If you get toner in your eyes, wash it out immediately with cool water and consult a doctor. Material Safety Data Sheets (MSDS) information can be found at www.konicaminolta.net/printer/ (click on "Answer Base").

- Make sure any parts removed during cleaning are replaced before you plug in the printer.

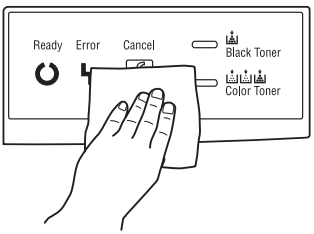
Cleaning the Printer

Always test any cleaning solution (such as a mild detergent) on a small area of your printer to check the solution's performance.

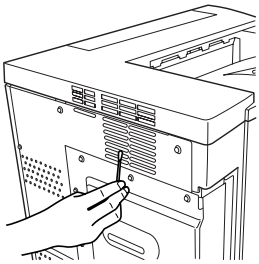
Exterior

This item needs cleaning...	After...	Use	Avoid
Control panel	Every 30,000 single-sided pages or every 12 months, whichever comes first.	A soft, **dry** cloth	Sharp or rough implements (such as wire or plastic cleaning pads)
Exhaust duct		Cotton swab	
			Any liquid
Printer exterior		A soft, **damp** cloth (mild detergent)	Sharp or rough implements (such as wire or plastic cleaning pads)
			Abrasive or corrosive solutions that contain solvents (such as alcohol or benzene)

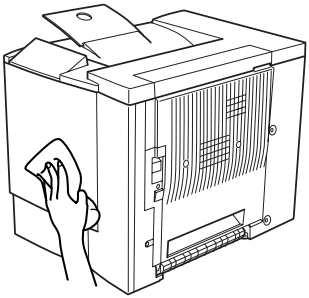
Control Panel



Exhaust Duct



Printer Exterior



Interior

Attention

Be sure to turn off the printer and unplug the power cord before cleaning inside.

This item needs cleaning...	After...	Use	Avoid
Duplex option feed rollers	Media misfeeds occur frequently or the printout is dirty.	A **damp** cloth that has been wrung out well	Abrasives or detergents
Tray 1 interior feed rollers	Every 30,000 single-sided pages, every 12 months, or as needed, whichever comes first.	A soft, **dry** cloth	Liquids, abrasives, or detergents
Laser lens cover	Removing the waste toner bottle to clean around it. Every 30,000 single-sided pages, every 12 months, or as needed, whichever comes first.		
Printer interior (such as the inside of the door, around the waste toner bottle)	Every 30,000 single-sided pages, every 12 months, or as needed, whichever comes first.		

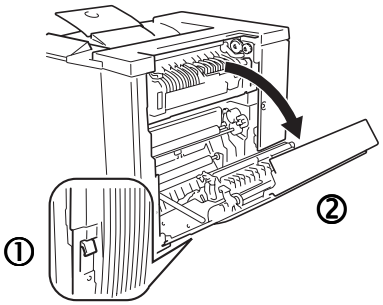
Media Rollers

The accumulation of paper dust and other debris on the paper transport roller can cause media-feeding problems.

Tray 1 (Multipurpose Tray) Interior Feed Rollers

1 Remove all media from Tray 1.

2 Pull the right-side door release ①, and then open the right-side door ②.

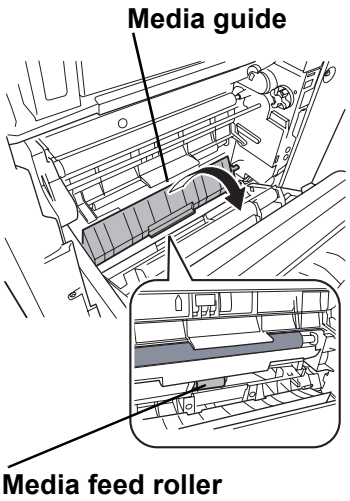


3 While pressing down the media guide with one hand, clean the media feed roller by wiping it with a soft, dry cloth.

4 Close the media guide.

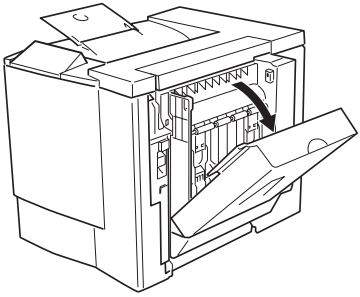
5 Close the right door.

6 Load the media into the tray again.



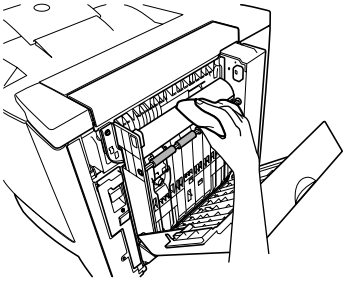
Duplex Option Feed Rollers

1 Open the duplex option door.



2 Clean the feed rollers by wiping them with a soft, damp cloth that has been wrung out well.

3 Close the duplex option door.



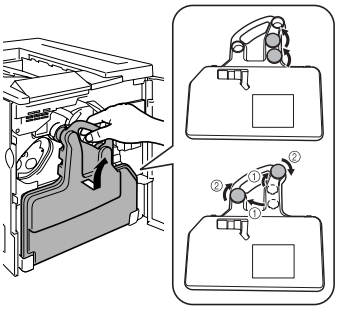
Printer Interior and Laser Lens Cover

1 Open the front door.

2 Remove the waste toner bottle.

The waste toner bottle contains waste toner. Be careful not to tilt the bottle while removing it.

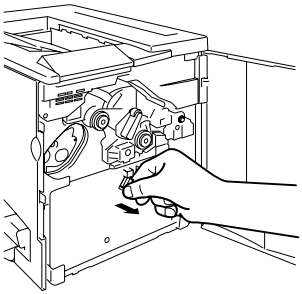
3 Hold the waste toner bottle vertically, and then plug the two openings with the caps.



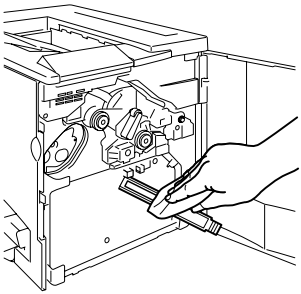
Place the removed waste toner bottle, with the openings facing up, on a stable surface (not the printer).

4 Pull out the laser lens cover.

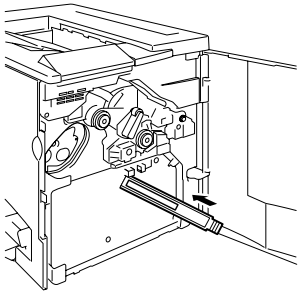
The laser lens cover cannot be removed from the printer. Do not pull it with too much force.



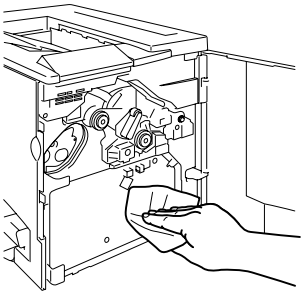
5 Wipe the surface of the laser lens cover with a soft, dry cloth.



6 Reinsert the laser lens cover.

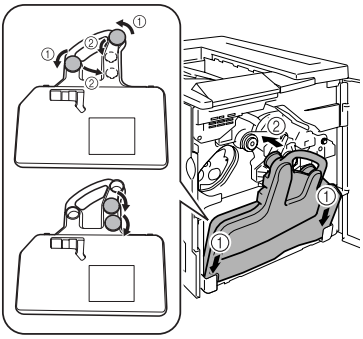


7 Wipe the inside of the printer with a soft, dry cloth.



8 Hold the waste toner bottle vertically, and then move the two caps from the openings onto the cap holders. Turn the caps clockwise to secure them.

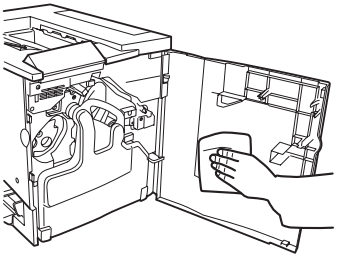
9 Set the bottom of the waste toner bottle into its compartment, and then push the top of the bottle into place.



10 Wipe the inside of the front door with a soft, dry cloth.

11 Wipe the outside of the waste toner bottle with a soft, dry cloth.

12 Close the front door.



8 Troubleshooting

Introduction

This chapter provides information to aid you in resolving printer problems you may encounter, or at least guide you to the proper sources for help.

Preventing media jams	page 73
Understanding the media path	page 74
Clearing media jams	page 75
Solving problems with media jams	page 81
Solving other problems	page 83
Solving problems with printing quality	page 89
Status, error, and service messages	page 96
Additional information	page 101

Preventing Media Jams

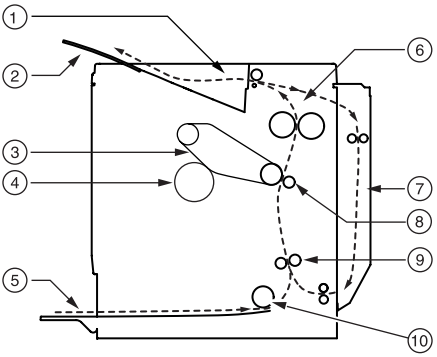
Make sure that...
Media matches the printer specifications.
Media is flat, especially on the leading edge.
The printer is on a hard, flat, level surface.
You store media in a dry location away from moisture and humidity.
You remove transparencies from the output tray immediately to avoid static buildup.
You always adjust the media guides in Tray 1 *after* inserting the media *(a guide that is not properly adjusted can cause poor print quality, media jams, or printer damage).*
You load the media (for single-sided pages) printing-side up in Tray 1 *(many manufacturers place an arrow on the end of the wrapper to indicate the printing side).*

Avoid...
Media that is folded, wrinkled, or excessively curled.
Double feeding *(remove the media and fan the sheets—they may be sticking together).*
Fanning transparencies since this causes static.
Loading more than one type/size/weight of media in a tray at the same time.
Overfilling the media input trays.
Allowing the output tray to overfill *(the face-down output tray has a 200-sheet capacity—jamming may occur if you allow media to accumulate more than 200 sheets at a time).*
Allowing the output tray to fill with more than a few transparencies.

Understanding the Media Path

Understanding the printer's media path will help you locate media jams.

1 Media exit
2 Output tray
3 Transfer belt
4 OPC drum cartridge
5 Tray 1 (multipurpose tray)
6 Fuser unit
7 Duplex option
8 Transfer roller
9 Registration rollers
10 Pickup rollers



Tray 1 (Multipurpose Tray)

Tray 1 is located at the left of the printer. The media is picked from Tray 1, passed between the transfer belt and the transfer roller, passed through the fuser, and delivered via the paper exit unit to the output tray on top of the printer.

Duplex Option

The media is picked from a media tray, passed between the transfer belt and the transfer roller, passed through the fuser, fed into the duplex option where the media undergoes a change in direction, cycles through the transfer belt and fuser again, and is delivered via the paper exit unit to the output tray, which is at the top of the printer.

Since several sheets cycle through the printer/duplex unit at the same time, recovering from a media jam may require the removal of more than one sheet.

Clearing Media Jams

To avoid damage, always remove jammed media gently, without tearing it. Any pieces of media left in the printer, whether large or small, can obstruct the media path and cause further jams. Do not reload media that has jammed.

Attention

The image is not fixed on the media before the fusing process. If you touch the printed surface, the toner may stick to your hands, so be careful not to touch the print face when removing the jammed media. Make sure not to spill any toner inside the printer.

Unfused toner can dirty your hands, clothes, or anything else it gets on. If you accidentally get toner on your clothes, lightly dust them off as much as possible. If some toner remains on your clothes, use cool, not hot water, to rinse the toner off. If toner gets on your skin, wash it off with water or a neutral detergent.

WARNING!

If you get toner in your eyes, wash it out immediately and consult a doctor. Material Safety Data Sheets (MSDS) information can be found at www.konicaminolta.net/printer/ (click on "Answer Base").

If, after clearing the media jam, the jam message in the Status Display persists, open and close the printer's doors. This should clear the jam message.

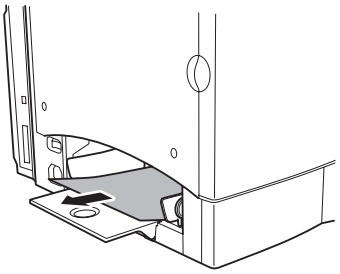
Handling Media Jams by Location

Location of Jam	Page Reference
Tray 1	page 76
Inside the printer	page 77
Near the duplex option	page 79
In the output tray	page 80

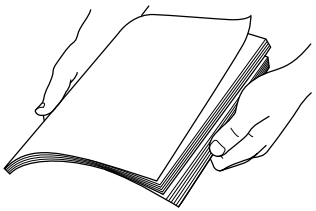
Tray 1 (Multipurpose Tray)

1 Remove the media from Tray 1.

2 Carefully remove the jammed media.



3 Fan the removed media to prevent static buildup and even up the front edges.



Do not fan transparencies before loading them. Resulting static electricity may cause printing errors.

4 Reinsert the media printing face up.

Make sure the media is lying flat and doesn't exceed the media limit mark. Check to see if the media width guides are correct.

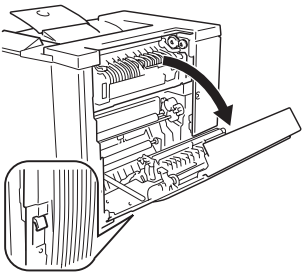
5 Open the right-side door, then close it.

The media jam message is no longer displayed in the Status Display message window.

Inside the Printer

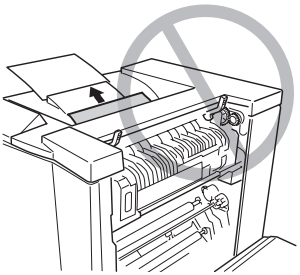
Media Path Jam

1 Pull the right door release lever, and then carefully open the right door.

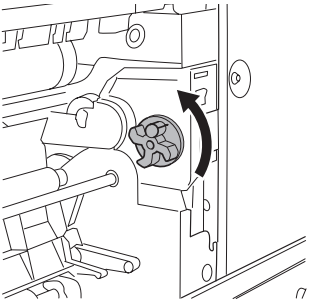


Attention

Do not pull jammed media from the top of the printer through the fuser unit because unfused toner may contaminate the fuser rollers.

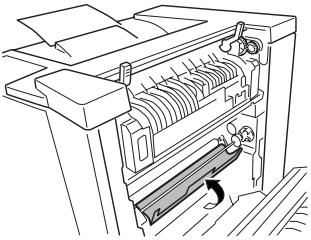


If it is difficult to remove the jammed media, turn the misfeed-clearing dial counterclockwise to feed the media downward.



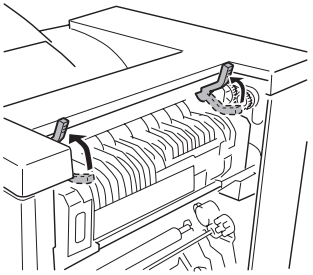
2 If a misfeed occurs in the vertical transport area, open the inner media guide, and then pull the misfed media down to remove it.

3 Close the inner media guide.

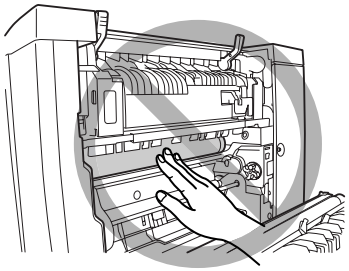


Fuser Jams

1 Lift up the two fuser unit levers.

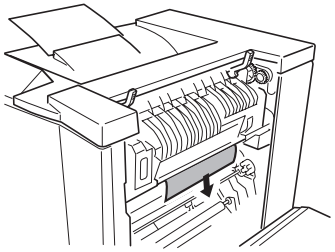


When removing the jammed media, be careful not to touch the transfer belt. Touching the transfer belt may result in poor print quality.

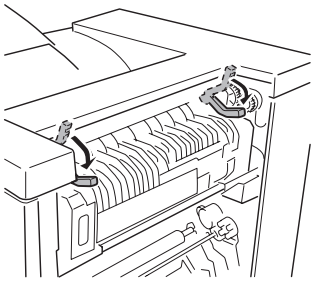


2 Open the misfeed-clearing guide for the fuser unit, and then, while checking the misfeed, pull the jammed media down to remove it.

3 Close the misfeed-clearing guide for the fuser unit.



4 Lower the two fuser unit levers.

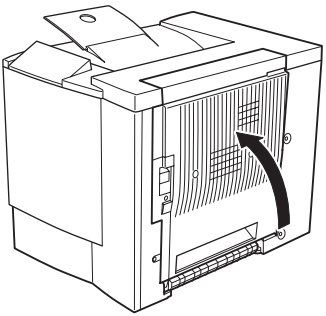


Attention

Be sure to lower the two fuser unit levers before closing the right door. If the levers are not lowered, the right door cannot be closed.

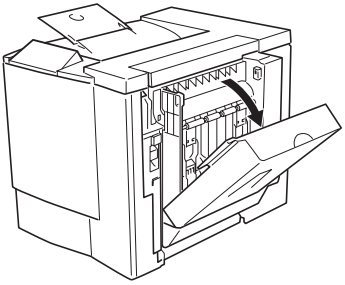
5 Close the right-side door securely.

The media jam message is no longer displayed in the Status Display message window.

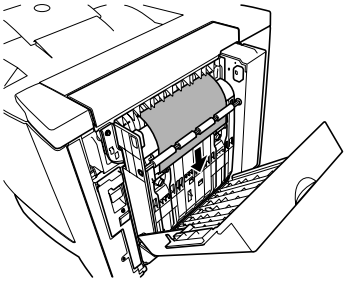


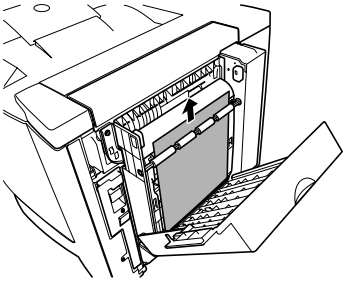
Duplex Option

1 Pull off the top of the duplex option to open the duplex option cover.



2 Remove the jammed media in the directions shown in the illustration.





3 Open the right-side door, then close it.

The media jam message is no longer displayed in the Status Display.

Output Tray

Remove jammed media from the output tray by gently pulling it to the left away from the media exit area.

Solving Problems with Media Jams

Frequent jams in any area indicate that area should be checked, repaired, or cleaned. Repeated jams may also happen if you're using unsupported print media.

Symptom	Cause	Solution
Several sheets go through the printer together.	The front edges of the media are not even.	Remove the media and even up the front edges, then reload it.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Too much static electricity is present.	Do not fan transparency media.
Media jam message continues to display in the Status Display.	Right-side door needs to be opened and closed again to reset the printer.	Open and close the right-side door of the printer again.
	Some media remains jammed in the printer.	Recheck the media path and make sure you have removed all of the media jams.
Duplex option jams.	The wrong media is being used.	Use only supported media. See "Media Specifications" on page 11.
		Only plain paper, 16–24 lb (60–90 g/m^2) can be autoduplexed if the optional duplex unit is installed and the media type is set properly in the driver. See "Media Specifications" on page 11 for supported sizes.
		Make sure that you have not mixed media types in Tray 1.
		Do not duplex custom-sized media, envelopes, labels, thick stock, or transparencies.
	Media may still be jammed.	Recheck the media path inside the duplex unit and make sure that you have removed all of the jammed media.

Symptom	Cause	Solution
Media is jamming.	The media is not correctly positioned in the tray.	Remove the jammed media and reposition the media properly in the tray.
	The number of sheets in the tray exceeds the maximum allowed.	Remove the excess media and reload the correct number of sheets in the tray.
	The media guides are not correctly adjusted to the media size.	Adjust the regulation guides in the tray to match the size of the media.
	Warped or wrinkled media is loaded in the tray.	Remove the media, smooth it out, and reload it. If it still jams, do not use that media.
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	The recommended transparency (OHP) or label paper is facing the wrong way in Tray 1.	Load the transparencies or labels according to the manufacturer's instructions.
	Envelopes are facing the wrong way in Tray 1.	Load the envelopes in Tray 1 so the flaps are facing down.
		If the flaps are on the short edge, set the envelopes in Tray 1 so that the flaps are on the printer side.
	Multiple sheets of transparency (OHP) media are collecting static electricity in the tray.	Remove the OHP media and load it in the tray one sheet at a time. Do not fan transparencies before loading them.
	Unsupported media (wrong size, thickness, type, etc.) is being used.	Use media that is covered by the printer warranty.
	Media supply roller is dirty.	Clean the media supply roller. For more details, refer to "Media Rollers" on page 66.

Solving Other Problems

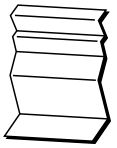
Symptom	Cause	Solution
Printer power is not on.	The power cord is not correctly plugged into the outlet.	Turn the power switch off (O position), then remove the power cord from the outlet and plug it back in.
	Something is wrong with the outlet connected to the printer.	Plug another electrical appliance into the outlet and see whether it operates properly.
	The power switch is not correctly turned on (I position).	Set the power switch to the off (O) position, then set it back to the on (I) position.
	The printer is connected to an outlet with a voltage or frequency that does not match the printer specifications.	Use a power source with the specifications listed in appendix A, “Technical Specifications.”
Data was sent to the printer, but it doesn’t print.	An error message is displayed in the Status Display.	Handle according to the message displayed.
The Status Display displays `Toner Low` much sooner than expected	A high-capacity toner cartridge was loaded, but the toner size was set at standard capacity.	In the Status Display’s **Print** menu, choose **Toner Replace...** and then select the capacity listed on the toner cartridge label.
	The toner cartridge is defective.	In the Status Display’s **Print** menu, choose **Toner Replace...**, remove the toner cartridge, and check for damage. If it is damaged, replace it.

Symptom	Cause	Solution
Printing takes too much time.	The printer is set to a slow printing mode (for example, thick stock or transparency).	It takes more time to print with special media. When using regular paper, make sure that the media type is set properly in the driver.
	The printer is set to power saving mode.	It takes time for printing to start in power saving mode. If you do not want to use this mode, disable it (Status Display's **Print/Maintenance...** menu).
	The job is very complex.	Wait. No action needed.
Blank pages come out during a print job.	One or more of the toner cartridges are defective or empty.	Check the toner cartridges. The image does not print if the cartridges are empty.
	The wrong media is being used.	Check that the media type set in the driver matches the media loaded in the printer.
Not all pages print.	The printer has the wrong kind of cable, or the printer is not configured for the correct cable and port.	Check your cable.
	The Cancel key was pressed.	Make sure no one pressed the Cancel key while your job was printing.
	The media tray is empty.	Check that the media trays are loaded with media, in place, and secure.
	A document is printed with an overlay file which has been created by a non-magicolor2300W driver.	Print the overlay file using a magicolor 2300W printer driver.

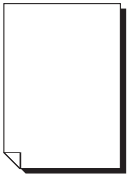
Symptom	Cause	Solution
Printer resets or turns off frequently.	The power cord is not properly connected to the AC outlet.	Turn off the unit, confirm that the power cord is properly connected to the AC outlet, and turn the unit back on.
	A system error occurred.	Contact Technical Support with the error information. See the *Service & Support Guide* for a list of sources of service and support in many areas of the world. The most current worldwide information can be found at www.konicaminolta.net/printer/.
You are experiencing problems duplexing.	Media or settings are not correct.	For autoduplexing, make sure that you have a duplex option installed.
		Make sure that you are using correct media. ■ See the table on page 11 for supported media. ■ Do not duplex custom-sized media, envelopes, labels, postcards, thick stock, or transparencies. ■ Make sure that you have not mixed media types in Tray 1.
		Make sure that your document has more than one page.
		Use the printer driver to make sure that the duplex unit is in the “Installed Options” list on the Device Options Setting.
		In the printer driver (Properties/Setup/ Duplex/Booklet), choose “Short Edge Binding” (flipped as on a clipboard) or “Long Edge Binding” (flipped as in a loose-leaf notebook).
		For N-up on duplexed pages, choose Collate only in the driver’s Paper Tab. Do not set collation in the application.
With N-up on multiple copies, the output is incorrect.	Both the driver and the application have been set for collation.	For N-up on multiple copies, choose Collate only in the driver’s Paper Tab. Do not set collation in the application.

Symptom	Cause	Solution
Booklet Left and Right Binding output is incorrect.	Both the driver and the application have been set for collation.	For Booklet Left Binding and Booklet Right Binding, choose Collate only in the driver's Paper Tab. Do not set collation in the application.
The printer pauses approxi-mately 90 seconds.	The printer pauses for the color calibration procedure (also known as the Auto-Image Density Control [AIDC] cycle). *This process is provided to make sure reliable printer operation with optimum output quality. If you open the door before the Ready indicator on the control panel lights up and the Error indicator turns off, the printer stops and repeats the calibration cycle.*	Wait while your printer automatically pauses to do an AIDC calibration cycle after 200 1-sided pages of a continuous print run.

Symptom	Cause	Solution
The printer pauses approxi-mately 150 seconds.	The printer pauses for the color calibration procedure (also known as the Auto-Image Density Control [AIDC] cycle). *This process is provided to make sure reliable printer operation with optimum output quality. If you open the door before the Ready indicator on the control panel lights up and the Error indicator turns off, the printer stops and repeats the calibration cycle.*	Wait while your printer automatically pauses to do an AIDC calibration cycle after rebooting your printer when there has been an environmental change such as in temperature or humidity.
		Wait while your printer automatically pauses to do an AIDC calibration cycle after “waking up” from Energy Saver mode with more than 1,000 pages since the last AIDC cycle.
		Wait while your printer automatically pauses to do an AIDC calibration cycle after the installation of a new toner cartridge or OPC drum cartridge.
You hear unusual noises.	The printer is not level.	Put the printer on a flat, hard, level surface not to exceed ±1° slant in any direction.
	The media tray is not installed correctly.	Remove the media tray that you are printing from and reinsert it completely into the printer.
	There is a foreign object stuck inside the printer.	Turn off the printer and remove the object. If you cannot remove it, contact Technical Support.

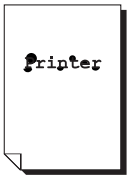
Symptom	Cause	Solution
Media is wrinkled. 	The media is moist from humidity or having water spilled on the paper supply.	Remove the moist media and replace it with new, dry media.
	The transfer roller or fuser unit may be defective.	Check them for damage. If necessary, contact Technical Support with the error information. Go to http://printer.konicaminolta.net/support or see the *Service & Support Guide* for support telephone numbers.
	Unsupported media is being used.	Use KONICA MINOLTA-approved media. Refer to “Media Types” on page 12. Check http://printer.konicaminolta.net/support (click on “Answer Base”) for currently approved media.

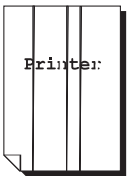
Solving Problems with Printing Quality

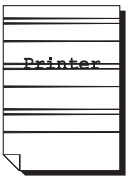
Symptom	Cause	Solution
Nothing is printed, or there are blank spots on the printed page. 	One or more of the toner cartridges are damaged.	Remove the toner cartridge and check for damage. If it is damaged, replace it (Status Display's **Print/Toner Replace...** menu).
	The printer driver is not set correctly.	Select the proper setting in the printer driver to switch from transparency (OHP) film to plain paper.
	The OPC drum cartridge is damaged.	Remove the OPC drum cartridge and check for damage. If it is damaged, replace it.
	The media is moist from humidity.	Adjust the humidity for paper storage. Remove the moist media and replace it with new, dry media.
	The media set in the printer driver mismatches the media loaded in the printer.	Load the correct media in the printer.
	The power source does not match the printer specifications.	Use a power source with the proper specifications.
	Several sheets are being fed at the same time.	Remove the media from the tray and check for static electricity. Fan plain paper or other media (but not transparencies), and replace it in the tray.
	Media is not set properly in the media tray.	Remove the media, tap it to straighten it out, return it to the media tray, and realign the media guides.
	The printer is not sitting on a level surface.	Relocate the printer on a flat, hard, stable, level surface that is large enough to hold the printer.

Symptom	Cause	Solution
Entire sheet is printed in black or color. 	One or more of the toner cartridges are defective.	Remove the toner cartridge and check for damage. If it is damaged, replace it (Status Display's **Print**/**Toner Replace...** menu).
	The OPC drum cartridge is damaged.	Remove the OPC drum cartridge and check for damage. If it is damaged, replace it.
Image is too light; there is low image density. 	Laser lens cover is dirty.	Clean the laser lens cover and perform an AIDC calibration cycle (Status Display's **Print**/**Power On Test** menu). Wait until the test is finished, the Ready indicator on the control panel lights up, and the Error indicator turns off.
	The media is moist from humidity.	Remove the moist media and replace with new, dry media.
	There is not much toner left in the cartridge.	Replace the toner cartridge (Status Display's **Print**/**Toner Replace...** menu). If the new cartridge capacity is different, select the toner cartridge capacity (Status Display's **Print**/**Toner Replace...** menu).
	One or more of the toner cartridges are defective.	Remove the toner cartridge and check for damage. If it is damaged, replace it (Status Display's **Print**/**Toner Replace...** menu).
	Media type may be set incorrectly.	When printing envelopes, labels, postcards, thick stock, or transparencies specify the appropriate media type in the printer driver.
Image is too dark. 	One or more of the toner cartridges are defective.	Remove the toner cartridge and check for damage. If it is damaged, replace it (Status Display's **Print**/**Toner Replace...** menu).
	The OPC drum cartridge is damaged.	Remove the OPC drum cartridge and check for damage. If it is damaged, replace it.

Symptom	Cause	Solution
Image is blurred; background is lightly stained; there is insufficient gloss of the printed image.	One or more of the toner cartridges are defective.	Remove the toner cartridge and check for damage. If it is damaged, replace it (Status Display's **Print**/**Toner Replace...** menu).
	The OPC drum may be misinstalled or defective.	Reinstall the OPC drum cartridge. If it is damaged, replace it.
The print or color density may be uneven.	One or more of the toner cartridges may be near empty or damaged.	Install new toner cartridges (Status Display's **Print**/**Toner Replace...** menu).
	The OPC drum cartridge may have been misinstalled or is defective.	Reinstall the OPC drum cartridge. If it is damaged, replace it.
	The printer is not on a level enough surface.	Level the printer (not exceeding ±1° slant at any point around the machine).
Irregular print or mottled image appears.	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Humidity may be too high.	Adjust the humidity in the paper storage area.
	Media with specifications not covered by the printer warranty is being used.	Use media that is covered by the printer warranty.
	One or more of the toner cartridges are defective.	Remove the toner cartridge and check for damage. If it is damaged, replace it (Status Display's **Print**/**Toner Replace...** menu).
	The OPC drum cartridge is damaged.	Remove the OPC drum cartridge and check for damage. If it is damaged, replace it.

Symptom	Cause	Solution
There is insufficient fusing or the image comes off when rubbed. 	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Media with specifications not covered by the printer warranty is being used.	Use media that is covered by the printer warranty.
	The media type may be incorrectly set.	When printing envelopes, labels, postcards, thick stock, or transparencies the appropriate media type must be specified in the printer driver.
There are toner smudges or residual images.	One or more of the toner cartridges are misinstalled or defective.	If the toner smudges are on only the front of the page: Remove the toner cartridge and check for damage. If it is damaged, replace it (Status Display's **Print/Toner Replace...** menu).

Symptom	Cause	Solution
There are toner smudges on the back side of the page (whether or not it has been duplexed).	The paper transport rollers may be dirty.	Clean the paper transport, pressure, and fuser oil rollers.
		If you think the transport roller should be replaced, contact Technical Support with the error information. See the *Service & Support Guide* for a list of sources of service and support in many areas of the world. The most current worldwide information can be found at www.konicaminolta.net/printer.
	The media path is dirty with toner.	Print several blank sheets and the excess toner should disappear.
	One or more of the toner cartridges are defective.	Remove the toner cartridge and check for damage. If it is damaged, replace it (Status Display's **Print/Toner Replace...** menu).
	The OPC drum cartridge is defective.	Remove the OPC drum cartridge and check for damage. If it is damaged, replace it.
Abnormal areas (white, black, or color) appear in a regular pattern. 	The laser lens cover may be dirty.	Check to see if the laser lens cover is dirty. If necessary, clean it with a clean soft cloth.
	The toner cartridge is damaged.	Remove the toner cartridge with the color causing the abnormal image. Replace it with a new toner cartridge.
	The OPC drum cartridge is damaged.	Replace the OPC drum cartridge.

Symptom	Cause	Solution
Image defects. 	The laser lens cover is dirty.	Clean the laser lens cover with a soft, dry cloth.
	The toner cartridge is leaking.	Remove the toner cartridge and check for damage. If it is damaged, replace it (Status Display's **Print**/**Toner Replace...** menu).
	The toner cartridge is damaged.	Remove the toner cartridge with the color causing the abnormal image. Replace it with a new toner cartridge.
	The OPC drum cartridge is damaged.	Replace the OPC drum cartridge.
Lateral lines or bands appear on image. 	The printer is not on a level enough surface.	Level the printer (not exceeding ±1° slant).
	The media path is dirty with toner.	Print several sheets and the excess toner should disappear.
	One or more of the toner cartridges are defective.	Remove the toner cartridge and check for damage. If it is damaged, replace it (Status Display's **Print**/**Toner Replace...** menu).
	The OPC drum surface is scratched or damaged.	Remove the OPC drum cartridge and check the green photosensitive surface for scratches. If it is damaged, replace it.
Colors look drastically wrong.	One or more of the toner cartridges are malfunctioning or expired.	Remove the toner cartridges and verify that the toner is distributed evenly on the cartridge roller, and reinstall the toner cartridges.
	One or more of the toner cartridges are low or out.	Check the Status Display for a *COLOR* `Toner Low` or *COLOR* `Toner Empty` message. If necessary, replace the specified toner cartridge.

Symptom	Cause	Solution
Colors are not registering properly; colors are mixed or have page-to-page variation.	The front door may not be properly closed.	Make sure that the printer's front door is closed.
	The OPC drum cartridge is not correctly seated.	Remove the OPC drum cartridge and reinstall it.
	One or more of the toner cartridges are defective.	Remove the toner cartridge and check for damage. If it is damaged, replace it (Status Display's **Print**/**Toner Replace...** menu).
	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
The color has a poor reproduction or has poor color density.	The paper image transfer is defective.	Check the OPC drum cartridge. If necessary, replace it.
	The Auto-Image Density Control (AIDC) detection sensor is dirty.	Clean the laser lens cover and perform an AIDC calibration cycle (Status Display's **Print**/**Power On Test** menu). Wait until the test is finished, the Ready indicator on the control panel lights up, and the Error indicator turns off. If the problem persists, contact Technical Support. See the *Service & Support Guide* for a list of sources of service and support in many areas of the world. The most current worldwide information can be found at www.konicaminolta.net/printer/.

If the problem is not resolved, even after all of the above have been performed, contact Technical Support with the error information.
Go to http://printer.konicaminolta.net/support or see the *Service & Support Guide* for support telephone numbers.

Status, Error, and Service Messages

Status, error, and service messages are displayed in the Status Display. They provide information about your printer and help you locate many problems. When the condition associated with a displayed message has changed, the message is cleared from the Status Display message window.

Standard Status Messages

This message...	means...	do this...
`Canceling Job`	The job is being cancelled.	No action needed.
`Energy Saver`	The printer is in Energy Saver mode to reduce power consumption during periods of inactivity. When a print job is received, the printer returns to normal power within 180 seconds.	
`Printer Idle`	The printer is on and ready to receive data.	
`Printing`	The printer is printing.	
`Processing`	The printer is processing data.	
`Warming Up`	The printer is warming up.	

Error Messages

This message...	means...	do this...
`Put` *`COLOR`* `Toner Cartridge`	The indicated toner cartridge is not installed properly.	Install the indicated toner cartridge.
`Drum is not Attached`	The OPC drum cartridge is not installed.	Install the OPC drum cartridge.
`No Duplex Unit`	Duplex printing was specified with the printer driver, but the duplex unit is not attached to the printer.	Stop the print job, and then either change the printer driver setting or attach the duplex unit to the printer.

This message...	means...	do this...
Video Under-run	The amount of data to be printed exceeds the printer's internal data transmission speed.	Turn the printer off, and then, after a few seconds, turn it on again. Decrease the amount of data to be printed (for example, by decreasing the resolution), and then try printing again.
Paper Jam at Duplex Lower	Media has jammed in the duplex unit.	Locate and remove the jam.
Paper Jam at Duplex Upper		
Paper Jam in Ejection	Media has jammed between the print engine and the output tray. A media jam has been detected between the fuser and output tray rollers located near the top cover. Exit jams occur in the media eject area.	
Paper Jam at Fusing Unit Section	Media has jammed leaving the fuser area.	
Paper Jam at Transfer Roller	Media jams occur in the transfer roller area. This type of jam means that the media did not make it to the paper exit area.	
Paper Jam at Tray 1	Media has jammed while being pulled from the specified tray 1.	

This message...	means...	do this...
COLOR Toner Low	The specified toner is low and should be replaced within 200 pages at 5% coverage of letter/A4 pages.	Replace the specified color toner.
Drum Near End	The OPC drum cartridge is nearing end of life and should be replaced or the quality eventually fades.	Replace the OPC drum cartridge.
Printer Cover Open	Printer's front door is open and must be closed.	Close the front door.
Size Mismatch	The media size set with the printer driver is different from the size of media loaded.	Install the correct media size.
Media Size is "*XX*". It's different between feeding Media and The Setting by the Driver/Incorrect Media Type on Tray 1.	The media size or type set with the printer driver is different from the type of media loaded into Tray 1.	Install the correct media size or type.
COLOR Toner Empty	The specified toner cartridge is empty.	Replace the toner cartridge (Status Display's **Print**/**Toner Replace...** menu).
Alert *COLOR* Toner Cartridge	Approximately 6,000 single-sided pages per cartridge. The toner cartridge must be replaced to print. (Any print jobs sent to the printer will be cancelled.)	
Tray 1 Empty	The indicated tray is empty.	Install media into the tray specified.
Waste Toner Box Near Full	The waste toner bottle is nearly full.	Install a new waste toner bottle.

This message...	means...	do this...
Waste Toner Box Full	The waste toner in the waste toner bottle is full.	Replace the waste toner bottle.
Put Waste Toner Box	The waste toner bottle is not installed.	Install the waste toner bottle.

Service Messages

A service message sometimes occurs as a result of an unusual combination of events, not because of an actual problem. When the printer stops and a service message displays in the Status Display message window, turn the printer off and then back on. This often clears the service message indicator, and printer operation resumes. Always try this before making a service call.

Service calls should be placed to the vendor from whom you purchased the printer. If you cannot get service from your vendor, see the *Service & Support Guide* for a list of sources of service and support in many areas of the world. The most current worldwide information can be found at www.konicaminolta.net/printer/.

This service message...	**means...**	**do this...**
`AIDC Sensor Error`	AIDC sensor error.	Contact Technical Support with the error information.
`Communication Error`	A communication error occurred in the parallel or USB interface.	Check that the interface cable is properly connected to the printer. If the error continues to appear even though the cables are correctly connected, contact Technical Support.
`Controller Internal Error`	There is an internal error on the controller board.	Contact Technical Support with the error information.
`SDRAM Error on Board`	There is an SDRAM error on the controller board.	Contact Technical Support with the error information.

This service message...	means...	do this...
ROM Error	ROM error.	Contact Technical Support with the error information.
Service Call:*XX*	An error has been detected with the item indicated "*XX*" in the service message.	Reboot the printer. This often clears the service message indicator, and printer operation can resume. If the problem persists, contact Technical Support. See the *Service & Support Guide* for a list of sources of service and support in many areas of the world. The most current worldwide information can be found at www.konicaminolta.net/printer/.

Additional Assistance

If you've followed all of the instructions in this guide and still have problems you can't solve, check our Answer Base at http://printer.konicaminolta.net/support for a solution.

See the *Service & Support Guide* for a list of sources of service and support in many areas of the world. The most current worldwide information can be found at www.konicaminolta.net/printer/.

9

Installing Accessories

Introduction

Attention

Use of accessories not manufactured/supported by KONICA MINOLTA is not supported by your printer and will void your warranty.

This chapter provides information about the following accessories. Contact your local vendor or www.konicaminolta.net/printer/ for compatibility and purchase information.

Duplex Option	Automatic duplexing

Check www.konicaminolta.net/printer/ for availability of additional accessories.

Attention

Installing accessories always requires that the printer be turned off and unplugged during installation.

Duplex Option

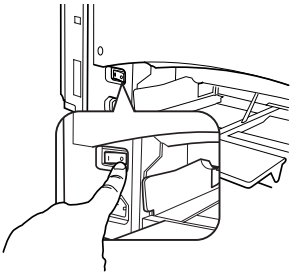
Duplex (2-sided) printing can be done automatically with a duplex option and enough memory installed. See “Duplexing” on page 23.

Kit Contents

- Duplex option
- Two thumbscrews

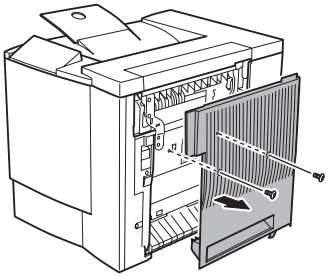
Installing the Duplex Option

1 Turn off the printer, and unplug the power cord and interface cable.

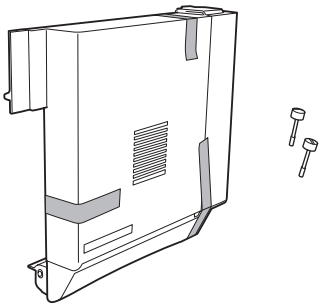


2 Remove the cover from the right side of the printer. Use a Phillips screwdriver to remove the two screws securing the right cover.

Keep the removed cover and screws in a safe place for future use.



3 Remove the duplex option from the shipping carton.

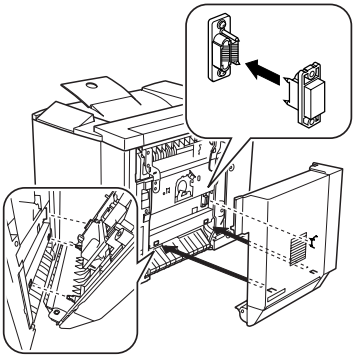


4 Remove any tape from the duplex unit.

*We **strongly** suggest that you save the packing materials in case you ever need to move or ship the printer.*

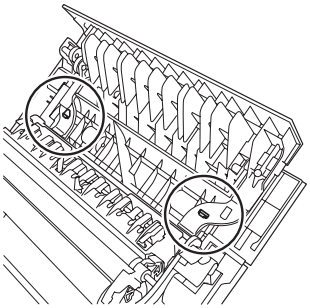
5 Attach the duplex option to the printer.

a Hook the two tabs at the bottom of the duplex option onto the notches on the right side of the printer.



b Push the duplex option toward the printer until it clicks on the top.

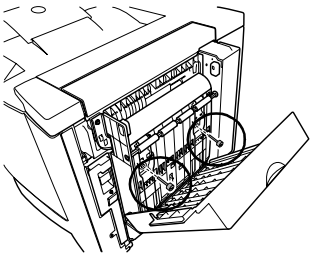
c While still supporting the duplex unit, carefully open the right-side door, and then check that the tabs on the duplex unit are correctly hooked onto the printer.



Attention

If the duplex option is released before it is secured with the screws, it may fall and break. Be sure to keep the duplex option supported until the screws are tightened.

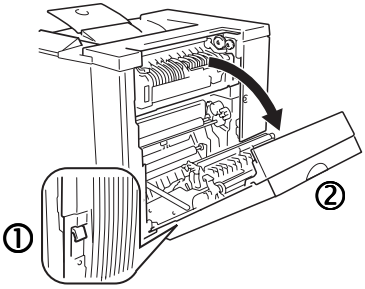
d Open the duplex option's cover and tighten the two thumbscrews on the duplex option to secure the unit to the printer.



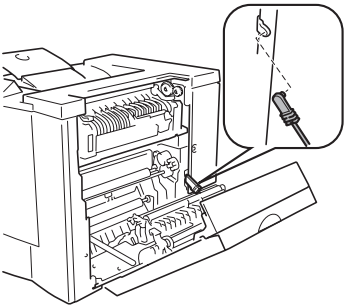
e Close the duplex option's cover.

6 Attach the support wire for the duplex option to the printer.

a Pull the right-side door release lever, and open the right-side door.



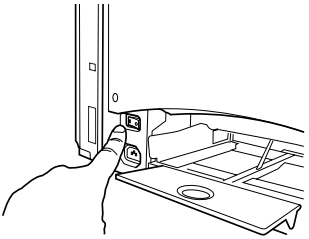
b Pull the tab for the support wire on the right side of the duplex option, and then hook the wire onto the hook of the printer.



c Close the right-side door.

7 Reconnect the interface cable.

8 Reconnect the power cord, and turn on the printer.



In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."

9 Start up the Status Display, select **Printer Information** on the **Display** menu, and then check that the duplex option is installed.

10 Configure your driver for the new duplex option. (Refer to "Device Options Setting Tab" on page 38.)

10 Repacking the Printer

Attention

The instructions and replacement partnumbers given in this chapter are for the Americas. For locations outside the Americas, refer to www.konicaminolta.net/printer/ or contact your local KONICA MINOLTA representative.

Attention

Failure to follow these instructions could result in voiding your warranty.

Storing the Printer

Unplug the printer when storing it for an extended period. Protect it from extremes in temperature and humidity, and from dust.

Relocating Your Printer

Occasionally, you may have to move your printer to a different location, either nearby or to a distant location. To avoid damage to your printer, we advise you to follow the next instructions very carefully.

1 Turn off your printer.

2 Remove the power cord and all interface cables.

3 If you are moving to a distant location, follow the instructions for repacking the printer (see page 111).

4 Relocate the printer.

WARNING!

Your printer weighs approximately 62 lbs (28 kg). Be sure to have help when lifting and moving it.

5 Unpack and set up the printer in its new location.

Use the unpacking and setup instructions in the Installation Guide.

6 Reconnect the power cord and all interface cables.

*We **strongly** suggest that you save the packaging materials in case you ever need to move or ship the printer, and that you order the KONICA MINOLTA 2300 Series Repacking Kit 2600733-100.*

You can also refer to the *Service & Support Guide* for sources of service and support in many areas of the world. The most up-to-date worldwide information can be found at www.konicaminolta.net/printer/.

Repacking the Printer

Attention

Failure to follow these instructions could result in voiding your warranty.

If you need to relocate or ship your printer after it's been installed, follow the procedures in this chapter to prevent damage to the printer and to keep your warranty valid.

Attention

KONICA MINOLTA cannot be held responsible for damage to your printer during shipment that results from the improper packaging of your printer.

You must use the instructions given in this section before repacking the printer in its original shipping carton with the original packing materials. If you do not have your original packaging, you must order a KONICA MINOLTA 2300W Replacement Packaging Kit 2600723-300.

If you're relocating or returning the printer, you must also request a KONICA MINOLTA 2300 Series Repacking Kit 2600733-100.

These supplies must be replaced prior to shipping the printer. If you need replacement packaging, in the Americas, call KONICA MINOLTA Spares at (251) 633-4300 extension 2530 and request the kit(s) above. For locations outside the Americas, refer to www.konicaminolta.net/printer/.

If you have been instructed to return the printer to KONICA MINOLTA by a customer support representative in the Americas, be sure to write the RMA (Return Merchandise Authorization) number you received on the outside of the carton and on the outside of the consumables box before shipping the printer. If the RMA number is not *prominently* visible on the outside of the return inventory, we will not accept receipt.

You can also have a KONICA MINOLTA authorized service provider uninstall and repack your printer. For prices and availability, call 1 (877) 778-2657 in the Americas or see www.konicaminolta.net/printer/ worldwide.

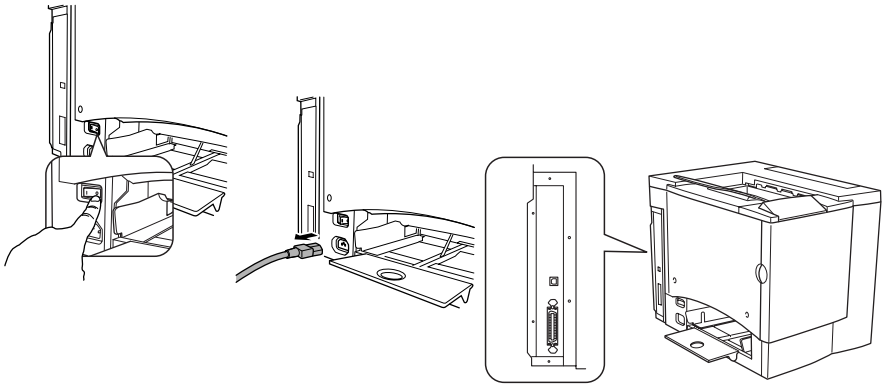
What's Involved?

Repacking your printer for shipment involves the following steps. Each is described in more detail in the following sections.

Obtain Proper Packaging:	
Original packaging or replacement packaging (KONICA MINOLTA 2300W Replacement Packaging Kit 2600723-300)	page 111
Repacking kit (KONICA MINOLTA 2300 Series Repacking Kit 2600733-100)	

Prepare the Printer for Shipment:	
A. Turn off the printer, unplug the power cord, and remove the interface cables.	page 112
B. Remove the media and the tray 1 media support.	page 113
C. Remove the duplex option, if attached, and repack it separately.	page 113
D. Remove the waste toner bottle, plug the openings, and dispose of it according to your local regulations.	page 114
E. Remove the OPC drum cartridge and repack it.	page 115
F. Remove the transfer belt and repack it.	page 116
G. Repack the printer for shipment.	page 117
H. Repack the OPC drum cartridge and transfer belt for shipment.	page 118

A. Turn off the Printer, Unplug the Power Cord, and Remove the Interface Cables

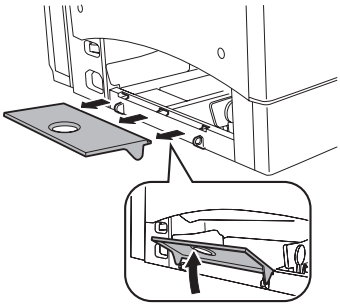


B. Remove the Media and the Tray 1 Media Support

1 Remove the media.

Place it in its original packaging and store in a cool, dark place on a level surface. Avoid moisture, excess humidity, direct sunlight, excess heat (above 95°F/35°C), and dust.

2 Lift the media support from the three holes in Tray 1 and remove the media support.

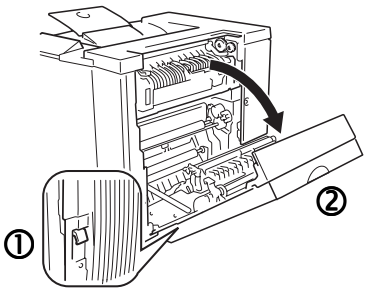


C. Remove the Options (if Attached)

Duplex Option

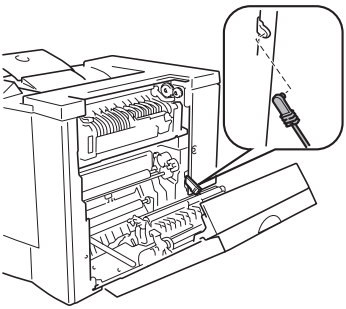
If you don't have a duplex option installed, skip to the next section.

1 Pull the right-side door release lever, and open the right-side door.



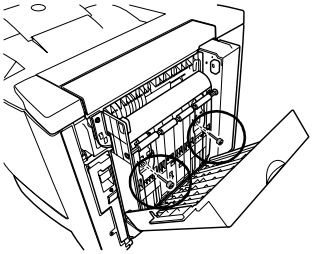
2 Unhook the support wire.

3 Close the right-side door.



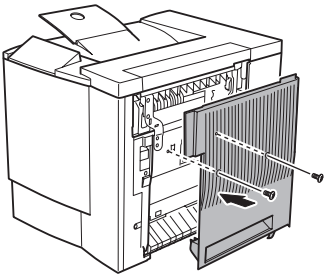
4 Open the duplex option's cover and loosen the two thumbscrews until the duplex option moves freely away from the right side of the printer.

5 Lift duplex option up and away from the printer.



6 Install the original right-side cover that came with the printer with two screws.

7 Repack the duplex option in its original shipping carton for storage or shipment.



If you're returning the printer for service, you don't need to return the duplex option, unless the problem is with the duplex option.

D. Remove the Waste Toner Bottle, Plug the Openings, and Dispose of It According to Your Local Regulations

1 Open the printer's front door, grasp the waste toner bottle's handle, and pull the waste toner bottle outward and upward.

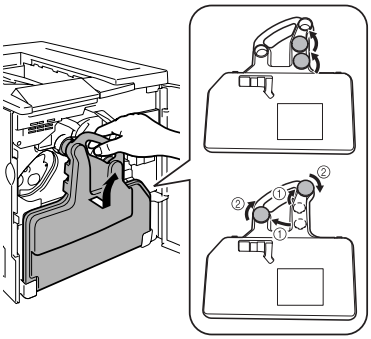
2 Carefully remove the waste toner bottle.

Keep the waste toner bottle upright while the openings are not covered, so the toner does not spill.

3 Place the removed waste toner bottle, with the openings facing up, on a stable surface (not the printer).

4 Remove the two caps by turning them ① counterclockwise.

5 Secure the two caps onto the two openings by turning them ② clockwise.



6 Dispose of the used waste toner bottle.

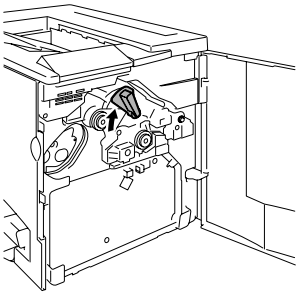
WARNING!

Dispose of the used waste toner bottle properly according to your local regulations (do not dispose of it by burning).

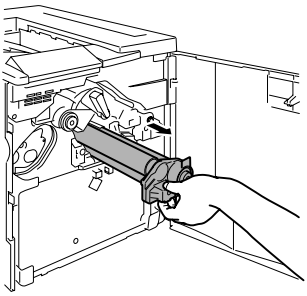
E. Remove the OPC Drum Cartridge

1 Rotate the transfer belt release lever clockwise to the top (11 o'clock) position.

This releases the pressure on the transfer belt unit.



2 Grasp the release lever on the OPC drum cartridge, and then pull the cartridge straight out about 6 inches (15 cm).



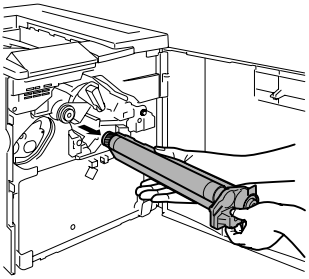
Attention

The OPC drum is extremely sensitive to bright light and direct sunlight. Any exposure to light should be avoided, or permanent damage could result.

Any damage resulting from mishandling of the OPC drum will void the warranty of the OPC drum cartridge. Handle the cartridge carefully by its sides so you don't touch the surface (the green part) of the drum. The drum is also extremely sensitive to hand oils and scratches, both of which reduce print quality.

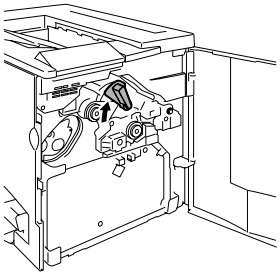
3 Support the bottom of the drum with your hand, then carefully pull the cartridge toward you and remove it.

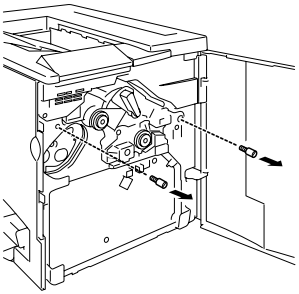
4 Place the OPC drum cartridge in the protective bag supplied in the repacking kit (*KONICA MINOLTA 2300 Series Repacking Kit 2600733-100)*.



F. Remove the Transfer Belt

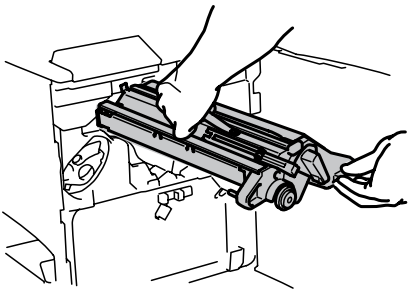
1 With the front door open and transfer belt release lever at its top (11 o'clock) position, unscrew the two thumbscrews.



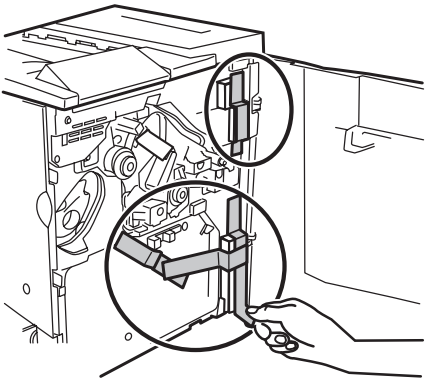


2 Grasp the transfer belt and pull it straight out.

3 Place the transfer belt and thumbscrews in the protective bag supplied in the repacking kit (*KONICA MINOLTA 2300 Series Repacking Kit 2600733-100)*.



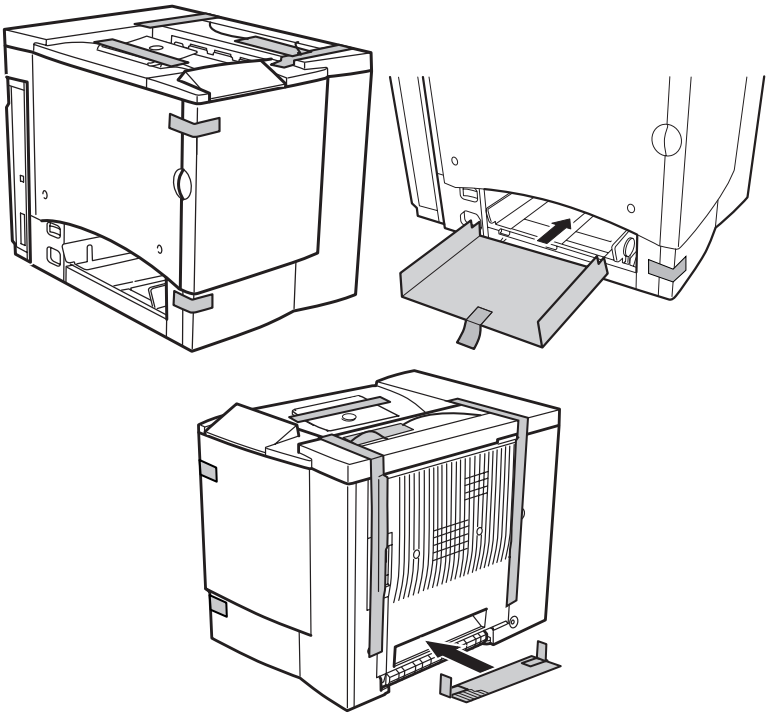
4 Replace the packaging and tape, then close the front door.



G. Repack the Printer for Shipment

Use your own original packaging or order KONICA MINOLTA 2300W Replacement Packaging Kit 2600723-300.

1 Replace the tape and packaging.



2 Place the lower cushions into the shipping carton.

3 Place the printer's plastic bag over the printer.

4 Pack the printer for shipment as shown.

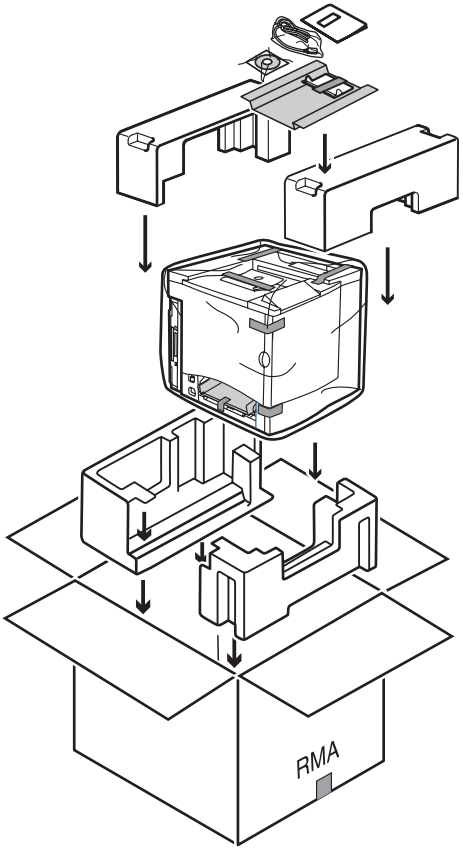
5 If you're also shipping the power cord and any manuals with the printer, place them in the shipping carton.

Don't ship these items if you're returning the printer for service.

6 Securely tape the top flaps of the shipping carton closed.

7 Ship the printer.

If you return the printer for service in the Americas, be sure to write the RMA (Return Merchandise Authorization) number you received from your customer support representative on the outside of the carton before shipping the printer.



H. Repack the OPC Drum and Transfer Belt Unit for Shipment

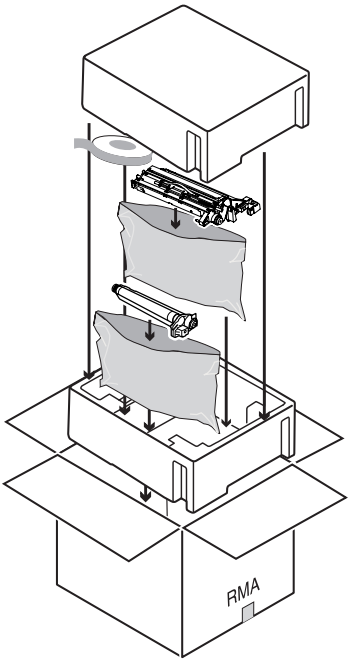
1 Order the KONICA MINOLTA 2300 Series Repacking Kit 2600733-100.

2 Place the OPC drum cartridge and transfer belt unit in the appropriate position in the box supplied in the repacking kit.

Also pack the supplied roll of tape in this box.

If you return the printer for service in the Americas, be sure to also write the RMA (Return Merchandise Authorization) number you received from your customer support representative on the outside of the box before shipping the consumables.

3 Securely tape the top flaps of the box closed.



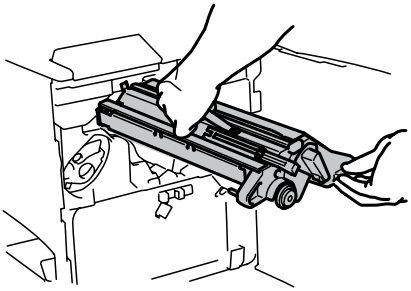
Reinstalling the Printer

If you have shipped the printer to another location, follow steps A–I below to reinstall the printer once received.

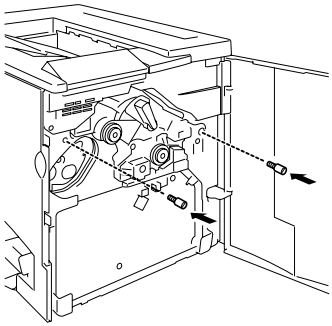
A. Unpack the printer carton.	Refer to the magicolor2300W *Installation* and *User's Guides*.
B. Rotate the transfer belt release lever and reinstall the transfer belt unit.	See "Reinstalling a Transfer Belt Unit" on page 120.
C. Install the OPC drum cartridge and return the transfer belt release lever to its correct position (7 o'clock).*	Refer to the magicolor2300W *User's Guide*. **The printer must complete a 150-second calibration cycle after a consumable has been replaced. If you open the door before the Ready indicator on the control panel lights up and the Error indicator turns off, the printer stops and repeats the calibration cycle.*
D. Install a new waste toner bottle.	
E. Replace the toner cartridges.*	
F. Install the tray 1 media support and load the media.	
G. Reconnect the power cord and cables.	
H. Install the options.	
I. Turn the printer on.	

Reinstalling a Transfer Belt Unit

1 With the front door open, remove the transfer belt unit from its packaging and reinsert it.

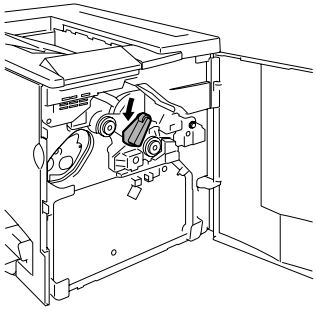


2 Replace the two thumbscrews.



3 Rotate the transfer belt release lever counterclockwise to its correct (7:00 o'clock) position.

4 Close the front door.



Technical Specifications

A

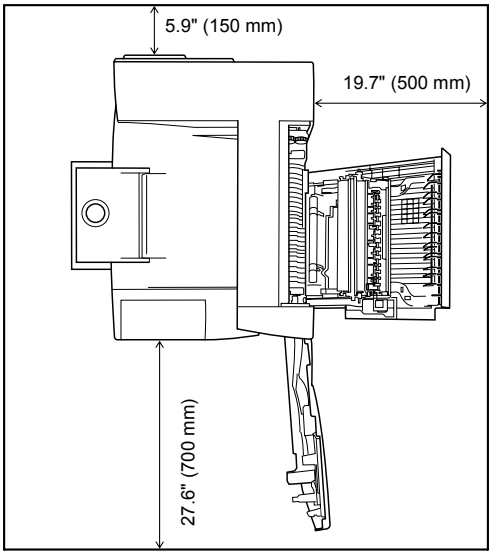
Requirements

Space Requirements

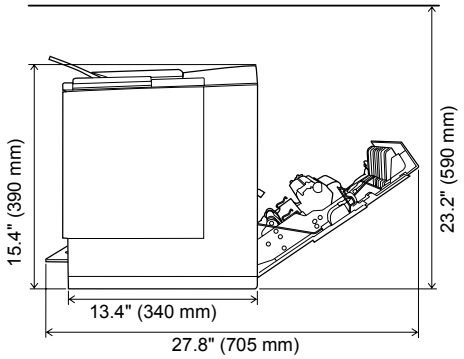
The illustration below shows the amount of space required for operating the printer, replacing supplies, and removing media jams.

Allow enough space around the printer to allow adequate ventilation and easy servicing. For best output quality and longest consumables life, install the printer on a hard, flat, level (within ±1°slant) surface.

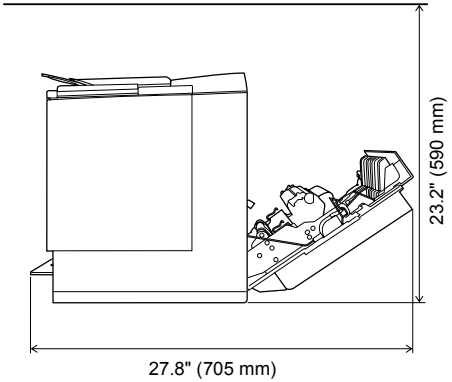
Top View



Side View



Printer with Accessories Side View



Location Requirements

- On a surface capable of supporting the printer, accessories, consumables, and media.

Component	Weight
Printer	56.2 lbs (25.5 kg)
Consumables (such as toner cartridge, OPC drum cartridge)	6.6 lbs (3.0 kg) (total)
Media	5.2 lbs (1.9 kg) per ream of 20 lb bond (75 g/m^2) paper
Duplex option	4.4 lbs (2.0 kg)

With these characteristics...	But away from...
On a hard, flat, stable, level (±1° or less slant at any point around the machine).	Direct sunlight. Heating and cooling sources, extreme temperature or humidity changes, wind, and dust. Open flames or items that can easily burn.
Close to an easily accessible grounded power supply (on an exclusively dedicated power outlet) that meets printer specifications. Near your computer. At the length 6.5' (2 m) or less for an IEEE 1284 bidirectional parallel connection.	A connection to the same electrical circuit as high-current machines. Noise-generating equipment, such as a copier or air conditioner, and strong magnetic or electromagnetic fields, such as a refrigerator.
With enough space to allow adequate ventillation and easy servicing.	Water, water pipes, liquid (drink) containers, and corrosive chemicals or vapors, such as ammonia.
With an ambient temperature range of 50°–95°F (10°–35°C) and temperature gradient of 18°F (10°C) per hour or less.	Small, loose metal parts, such as paper clips and staples.
With relative humidity range of 15%–85% (noncondensing) and humidity gradient of 20% per hour or less.	Excessive vibration.
At an altitude of 0–8,202' (0–2,500m).	

A surface can be tested for levelness with a standard round pencil. If the pencil rolls, the surface is not level. Clear the area of any obstruction or items such as cables that might prevent the printer from sitting directly on the flat, level surface.

WARNING!

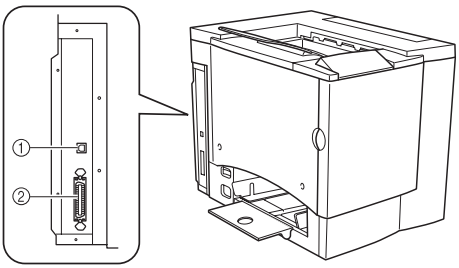
Obstructing the ventilation grilles could present a fire hazard.

- Do not tilt the printer more than 1° when moving it.
- If the printer is located in a cold room that is rapidly heated, or if the printer is moved from a cold place to a warm, humid place, condensation may occur within the printer, degrading print quality. If this occurs, allow the printer to adapt to the environment for about one hour before use.
- If using a humidifier or water vaporizer in the room with the printer, use only purified or distilled water. Impurities in the water may be released into the air, where they can accumulate inside the printer and cause degraded printer output.

Attention

For products installed outside North America, do not connect the groundwire to gas or water pipes or grounding for telephones.

Interface Panel



① USB (version 1.1) Port

Use a USB cable (Type B) when connecting the USB port on the printer to the USB port on your computer.

② Parallel Port

Use a Centronics IEEE 1284 bidirectional parallel cable when connecting the parallel port on the printer to the parallel port on your computer.

Power Requirements

WARNING!

Connect the power plug to an outlet with the same rated voltage as the printer. No other devices should be connected to this outlet, as overheating could cause fire or electric shock. The printer draws 13 A at 100 V, 11 A at 120 V, or 7 A at 220–240 V. Your printer requires a properly grounded AC outlet. The grounding terminal on the power cable should be connected to a good earth ground to prevent electric shock and fire.

In compliance with UL guidelines, "The appliance inlet is considered to be the main disconnect device."

Input Power	**Japan**	100 VAC; 50/60 Hz ±3%
	North America	120 VAC; 50/60 Hz ±3%
	Europe	220–240 VAC; 50/60 Hz ±3%
	Latin America	115/120 VAC; 50/60 Hz ±3% 220–240 VAC; 50/60 Hz ±3%
	Notes: Amperage capacity is at least 1.2 times that used by the printer.	
Voltage Fluctuation Rate and Rated Line Voltage	**Japan**	100 VAC ±10%
	North America	120 VAC ±10%
	Europe	220–240 VAC ±10%
	Latin America	120 VAC ±10% 220–240 VAC ±10%
	Notes: 10% of the rated line voltage for proper operation.	
Frequency Variation Rate	Within 50–60 ±3 Hz	
Maximum Electrical Current	Required during operation is 13 amps for a 100 V system, 11 amps for a 120 V system, and 7 amps for a 220–240 V system.	
Noise-generating Equipment	Should not be connected to the same electrical outlet as the printer.	
Grounding	Your printer requires a properly grounded AC outlet.	

ENERGY STAR Compliance

The magicolor2300W basic configuration is compliant with US Environmental Protection Agency (EPA) ENERGY STAR regulations. After a user- configurable period of inactivity, the printer changes to a low-power state (the engine remains on, but the fuser turns off). When a print job is received, the printer returns to normal power.

Engine and Controller Specifications

Engine

Duty cycle	**Simplex letter/A4 pages per month**	1,000 average prints and up to 35,000 maximum prints per month*
Notes	The duty cycle is affected by the media type and percent coverage. *Continued usage at this rate will reduce the life of the printer.	

Print Speed—Simplex

The following table defines the maximum print speed in pages per minute (ppm) at 600x600 dpi resolution.

Page size	Monochrome ppm	4-color ppm
Letter/A4 or smaller	16	4
Legal/Folio	8	2.02
Transparency Film (Letter/A4)	2.5	1.6
Label/Thick (Letter/A4)	3.3	2.0

Print Speed—Autoduplex

The following table defines the maximum print speed in pages per minute (ppm) at 600x600 dpi resolution.

Page size	Monochrome ppm	4-color ppm
A4	10	4
Legal	3.24	1
Letter	10	4

General

Printer type	Desktop, non-impact, color printer
Print method	**Scanner:** Semiconductor laser with rotating mirror **Recorder:** Black writing electrophotographic **Process:** Cyan, magenta, yellow, and black toner image transfer to print media **Fuser:** Heated rollers
Native resolution	600 × 600 dpi
Available resolution	1200 × 600 dpi
Toner	**Type:** Dry, single component **Packaging:** User-replaceable toner cartridges
Warm-up time	**Maximum:** 100 V/120 V/220 to 240 V: 180 seconds or less
Input sources	**Standard:** 200-sheet multipurpose tray
Output	200-sheet (Letter/A4) output tray on top of printer
Media sizes and weights	See “Using Media” on page 9.
Media type	Cut-sheet
Notes	The maximum media weight supported for duplex printing is 24 lb bond (90 g/m^2).

Controller

CPU	N1-Chip (Naltec original ASIC)
Standard interfaces	**Parallel**—Centronics/IEEE 1284 bidirectional **USB**—USB (version 1.1) Type B connector
RAM	**system RAM:** 32 MB

Electrical

Voltage and Power

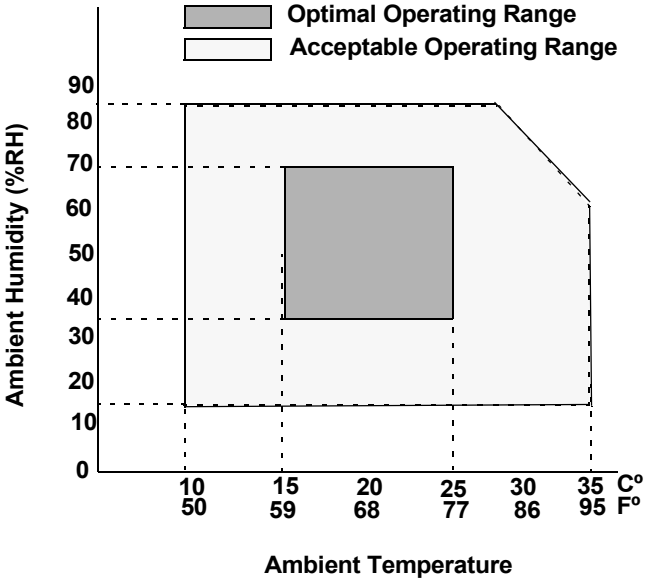
Voltage and frequency	**Japan:** 100 volts ±10% at 50/60 Hz ±3 Hz **US:** 120 volts ±10% at 50/60 Hz ±3 Hz **International:** 220–240 volts +10% at 50 Hz ±3 Hz		
Phase	Single		
Power consumption	**Mode**	**Average**	**Maximum**
	Black monochrome printing Color printing Standby Power saver	600 W or less 450 W or less 250 W or less 30 W or less	1100 W or less
Certification	ENERGY STAR compliant		

Current

Mode	**Maximum**
Operation (100 V)	13.0 A or less
Operation (120 V)	11.0 A or less
Operation (220–240 V)	7.0 A or less

Environmental

Acoustic noise data	**Printing:** Less than 54 dB (A) **Standby:** Less than 39 dB (A)
Noise Declaration for Germany	Maschinenlärminformationsverordnung 3. FSGV, 18.01.1991: Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger gemäß EN 27779.
Relative humidity	**Operating:** 15–85% RH (noncondensing) **Transportation/Storage:** 30–85% RH (noncondensing) **Humidity Gradient:** 20% per hour or less
Temperature range	**Operating:** 50–95°F (10–35°C) **Transportation/Storage:** 32–95°F (0–35°C) **Temperature Gradient:** 18°F (10°C) per hour or less
Altitude	**Operating:** 0–8,202’ (0–2,500 m) **Limit of Low Pressure:** 74.1 kPa **Transportation/Storage:** Air pressure: 74.0–101.3 kPa
Inclination	**Operating:** ±1° or less slant at any point around the machine



Hazardous Chemical Substance Reporting

Material Safety Data Sheets (MSDS)	Title 29 CFR Ch. XVII, Part 1920.1200
EINECS/ELINCS (EU)	

Physical

	Main Body	Main Body with Duplex Option
Dimensions	**W:** 14.02 in. (356 mm) **H:** 15.43 in. (392 mm) **D:** 19.69 in. (500 mm)	**W:** 15.98 in. (406 mm) **H:** 15.43 in. (392 mm) **D:** 19.69 in. (500 mm)

Weight	Main Body (including consumables, excluding media)	62.8 lbs (28.5 kg)
	Duplex option	4.4 lbs (2.0 kg)

Consumable Life Expectancies

The stated life expectancy of each consumable is based on printing under specific operating conditions, such as media type, page size, content of material printed, and page coverage (usually 5% coverage of letter/A4-size media). The actual life expectancy will vary (or be reduced) depending on these and other printing variables, including continuous (optimal consumable life) or intermittent (for example, one-page jobs) printing, ambient temperature, and humidity.

Use of consumables not manufactured by KONICA MINOLTA or use of nonsupported print media may cause damage to your printer and will void your warranty. If KONICA MINOLTA printer failure or damage is found to be directly attributable to the use of non-KONICA MINOLTA consumables and/or accessories, KONICA MINOLTA will not repair the printer free of charge. In this case, standard time and material charges will be applied to service your printer for that particular failure or damage.

Plain Paper

Consumables	This item needs replacing after...
OPC Drum Cartridge	Up to 45,000 continuous monochrome or 11,250 continuous four-color pages, or 10,000 intermittent (one-page jobs) monochrome or 7,500 intermittent color pages.
Toner Cartridge	**Standard capacity:** Approximately 1,500 single-sided pages per cartridge—yellow, magenta, cyan at 5% coverage of each color.
	High capacity: Approximately 4,500 single-sided pages per cartridge—black, yellow, magenta, cyan at 5% coverage of each color.
Waste Toner Bottle	Approximately 25,000 continuous monochrome or 21,600 intermittent (one-page jobs) monochrome, or 6,250 continuous or intermittent color pages (based on the standard mode with 5% toner coverage of letter/A4 media).

Special Media

Consumables	This item needs replacing by user after...
OPC Drum Cartridge	Up to 15,000 continuous monochrome or 7,500 continuous color pages, or 5,000 intermittent (one-page jobs) monochrome or 4,100 intermittent color pages.
Toner Cartridge (pages per cartridge at 5% coverage of each color)	**Standard capacity (black):** Approximately 1,500 continuous single-sided pages or 1,000 intermittent single-sided pages (if monochrome black printing only).
	Standard capacity (yellow, magenta, cyan): Approximately 1,500 continuous or intermittent single-sided pages.
	High capacity (black): Approximately 4,500 continuous single-sided pages or 3,200 intermittent single-sided pages (if monochrome black printing only).
	High capacity (yellow, magenta, cyan): Approximately 4,500 continuous or intermittent single-sided pages.
Waste Toner Box	Approximately 25,000 continuous or 14,400 intermittent (one-page jobs) monochrome pages or 6,250 continuous or intermittent color pages.

Contact your local vendor or www.konicaminolta.net/printer/ for purchase information, parts numbers, and pricing. To order approved media, go to www.q-shop.com. If you have any questions, refer to http://printer.konicaminolta.net/support, then click on “Answer Base.”

Regulatory Compliance

CE Marking (Declaration of Conformity) For European Users

This product complies with the following EU directives: 89/336/EEC, 73/23/EEC, and 93/68 EEC directives. This declaration is valid for the areas of the European Union.

This device must be used with shielded interface cables. The use of non-shielded cable is likely to result in interference with radio communications, and is prohibited under EU directives.

Electro-Magnetic Interference For All Users (Except for American and Canadian Users) Users

⚠ WARNING

This is a Class B product. In a domestic environment, this product may cause radio interferences in which case the user may be required to take adequate measures.

Interference-causing Equipment Standard (ICES-003 ISSUE 3) For Canada Users

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This devise must be used with shielded interface cables. The use of non-shielded cable is likely to result in interference with radio communications, and is prohibited under ICES-003.

cTick Mark	**ACA (Australia)** AS/NZS 3548	 Class B ITE (Radio Communications Act of 1992)
Electromagnetic Emissions (EMI)	**China** GB 9254 GB 17625.1 **FCC (USA)** Title 47 CFR Ch.1, Part 15, Subpart B **Industry Canada (Canada)** ICES-003 Issue 3 **International (EU)** EU Directive 89/336/EEC EN 55022 (CISPR Pub. 22) EN 61000-3-2 EN 61000-3-3 **Japan (VCCI)** VCCI V-3/01.04 Harmonic Current Measure Guideline (2001) of JBMIA	 Class B Class A Class B Digital Device Class B Digital Device Class B ITE Harmonic Current Emissions Voltage Fluctuations and Flicker Class B ITE Class A
Energy Saver	**ENERGY STAR (USA, EU, and Japan)**	ENERGY STAR Compliant in basic configuration
Immunity Requirements (EU)	**International (EU)** EN 55024	 Immunity Characteristics

Product Safety	UL (USA) cUL (Canada) International (EU) China	UL 60950 CAN/CSA C22.2 60950 EU Directive 73/23/EEC, EN 60950 and IEC 60950 GB 4943
Laser Safety	CDRH (USA) International (EU)	Title 21 CFR Ch. I, Subchapter J EN 60825-1 and IEC 60825-1

FCC Compliance Statement For American Users

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Operation of this equipment in a residential area is likely to cause harmful interference, in which case, the user will be required to correct the interference at his own expense.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device must be used with shielded interface cables. The use of non-shielded cable is likely to result in interference with radio communications, and is prohibited under FCC rules.

Attention

Any modifications or changes to this product not expressly approved in writing by the manufacturer responsible for compliance to Federal Regulations could void the user's authority to operate this product within the Laws and Regulations of the Federal Communications Commission.

Safety Information

Toner

⚠ WARNING

Do not throw the toner cartridge or toner into an open flame. The hot toner may scatter and cause burns or other damage.

CAUTION: Keep out of reach of children.

Laser Safety

This printer is a page printer which operates by means of a laser. There is no possibility of danger from the laser, provided the printer is operated according to the instructions in this manual.

Since radiation emitted by the laser is completely confined within protective housings and external covers, the laser beam cannot escape from the machine during any phase of user operation.

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation.

Internal Laser Radiation

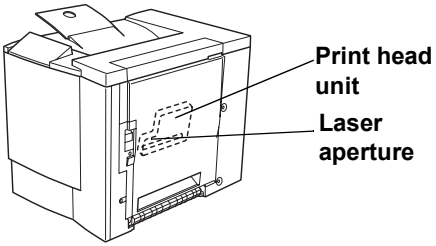
Maximum Average Radiant Power: 4.68 µW at the surface of the OPC drum

Wavelength: 770–795 nm

This product employs a Class IIIb Laser Diode that has an invisible laser beam. The Laser Diode and Scanning Polygon Mirror are incorporated in the print head unit. The print head is in the interior of the printer in front of the toner cartridge. The laser beam is emitted from the print head unit, and then is radiated through the laser aperture to the interior of the printer.

⚠ WARNING

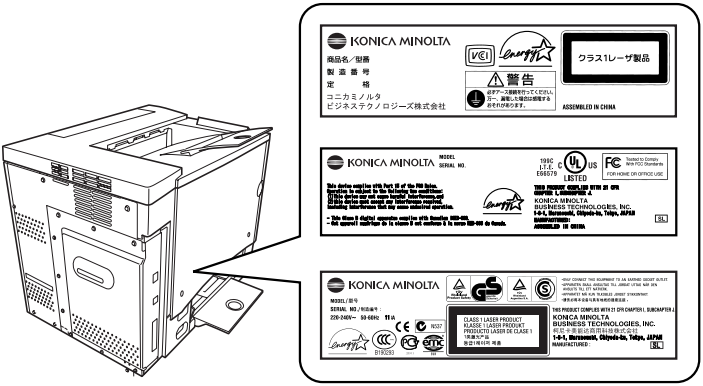
The internal components of the print head unit are NOT A FIELD SERVICEABLE ITEM. Therefore, the print head unit should not be opened under any circumstances.



Laser Caution For United States Users—CDRH Regulations

This printer is certified as a Class I laser product under the Regulation Performance Standard according to the Food, Drug, and Cosmetic Act of 1990. Compliance is mandatory for laser products marketed in the United States, and is reported to the Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration (FDA) of the Department of Health and Human Services (DHHS). This means that the product does not produce hazardous laser radiation. The label shown below indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

Laser Safety Label—CDRH Requirement



⚠ WARNING

CAUTION: Use of controls, adjustments, or performance other than those specified in this manual may result in hazardous radiation exposure.

This is a semiconductor laser. The maximum power of the laser diode is 5 mW, and the wavelength is 770–795 nm.

International Notices—Power Cord

The following power cord requirements are in effect for your 220 V printer.

Minimum: 0.75 mm^2

Minimum: H05 VV - F

The male plug is certified in the country in which the equipment is to be installed, and the female plug is an IEC 60320 connector.

International Notices—Voltage

Attention Norwegian users: This equipment is designed to operate within an IT power system where the line-to-line voltage does not exceed 240 V.

For Norway Users

ADVERSEL

Dersom apparatet brukes på annen måte enn spesifisert i denne bruksanvisning, kan brukeren utsettes for unsynlig laserstråling som overskrider grensen for laser klass 1.

Dette en halvleder laser. Maksimal effekt till laserdiode er 5 mW og bølgelengde er 770–795 nm.

For Finland, Sweden Users

LOUKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

VAROITUS!

Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

Tämä on puolijohdelaser. Laserdiodin suurin teho on 5 mW ja aallonpituus on 770–795 nm.

VARNING!

Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

Det här är en halvledarlaser. Den maximala effekten för laserdioden är 5 mW och våglängden är 770–795 nm.

VARO!

Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

VARNING!

Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

Ozone Release

During printer operation, a small quantity of ozone is released. This amount is not large enough to harm anyone adversely. However, be sure the room where the printer is being used has adequate ventilation, especially if you are printing a high volume of materials, or if the machine is being used continuously over a long period.

Dégagement d'ozone

L'imprimante dégage une faible quantité d'ozone durant son utilisation.
Cette quantité n'est pas suffisamment importante pour être dangereuse. Cependant, veillez à ce que la pièce dans laquelle la machine soit adéquatement ventilée, surtout en cas d'impression de gros volumes ou en cas d'utilisation continue pendant un laps de temps très long.

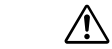
This section contains detailed instructions on the operation and maintenance of this machine. To achieve optimum utility of this device, all operators should carefully read and follow the instructions in this manual. Please keep this manual in a handy place near the machine.

Please read the next section before using this device. It contains important information related to user safety and preventing equipment problems.

Make sure you observe all of the precautions listed in this manual.

Note that some parts of the contents of this section may not correspond with the purchased product.

Warning and Precaution Symbols

⚠ WARNING or **WARNING!**	Ignoring this warning could cause serious injury or even death.
 or 	Ignoring this caution could cause injury or damage to property.

Meaning of Symbols

A triangle indicates a danger against which you should take precaution.

This symbol warns against burns.

A diagonal line indicates a prohibited course of action.

This symbol warns against dismantling the device.

A black circle indicates an imperative course of action.

This symbol indicates you must unplug the device.

⚠ WARNING

	• Do not modify this product, as a fire, electrical shock, or breakdown could result. If the product employs a laser, the laser beam source could cause blindness. • Do not attempt to remove the covers and panels which have been fixed to the product. Some products have a high-voltage part or a laser beam source inside that could cause an electrical shock or blindness.
	• Only use the power cord supplied in the package. Failure to use this cord could result in a fire or electrical shock. • Use only the specified power source voltage. Failure to do that could result in a fire or electrical shock. • Do not use a multiple outlet adapter to connect any other appliances or machines. Use of a power outlet for more than the marked current value could result in a fire or electrical shock.
	Do not unplug and plug in the power cord with a wet hand, as an electrical shock could result.
	Plug the power cord all the way into the power outlet. Failure to do this could result in a fire or electrical shock.
	• Do not scratch, abrade, place a heavy object on, heat, twist, bend, pull on, or damage the power cord. Use of a damaged power cord (exposed core wire, broken wire, etc.) could result in a fire or breakdown. Should any of these conditions be found, immediately turn OFF the power switch, unplug the power cord from the power outlet, and then call your authorized service representative. • In principle, do not use an extension cord. Use of an extension cord could cause a fire or electrical shock. Contact your authorized service representative if an extension cord is required.
	Do not place a flower vase or other container that contains water, or metal clips or other small metallic objects on this product. Spilled water or metallic objects dropped inside the product could result in a fire, electrical shock, or breakdown. Should a piece of metal, water, or any other similar foreign matter get inside the product, immediately turn OFF the power switch, unplug the power cord from the power outlet, and then call your authorized service representative.
	• If this product becomes inordinately hot or emits smoke, or unusual odor or noise, immediately turn OFF the power switch, unplug the power cord from the power outlet, and then call your authorized service representative. If you keep on using it as is, a fire or electrical shock could result. • If this product has been dropped or its cover damaged, immediately turn OFF the power switch, unplug the power cord from the power outlet, and then call your authorized service representative. If you keep on using it as is, a fire or electrical shock could result.
	Do not throw the toner cartridge or toner into an open flame. The hot toner may scatter and cause burns or other damage.
	Connect the power cord to an electrical outlet that is equipped with a grounding terminal.

- Do not use flammable sprays, liquids, or gases near this product, as a fire could result.
- Do not leave a toner cartridge or OPC drum cartridge in a place within easy reach of children.
  Licking or ingesting any of these things could injure your health.
- Do not let any object plug the ventilation holes of this product. Heat could accumulate inside the product, resulting in a fire or malfunction.
- Do not install this product at a site that is exposed to direct sunlight, or near an air conditioner or heating apparatus. The resultant temperature changes inside the product could cause a malfunction, fire, or electrical shock.
- Do not place the product in a dusty place, or a site exposed to soot or steam, near a kitchen table, bath, or a humidifier. A fire, electrical shock, or breakdown could result.
- Do not place this product on an unstable or tilted bench, or in a location subject to a lot of vibration and shock. It could drop or fall, causing personal injury or mechanical breakdown.
- After installing this product, mount it on a secure base. If the unit moves or falls, it may cause personal injury.
- Do not store toner units and OPC drum units near a floppy disk or watch that are susceptible to magnetism. They could cause these products to malfunction.

The inside of this product has areas subject to high temperature, which may cause burns. When checking the inside of the unit for malfunctions such as a paper misfeed, do not touch the locations (around the fusing unit, etc.) which are indicated by a “Caution! High Temperature!” warning label.

Do not place any objects around the power plug as the power plug may be difficult to pull out when an emergency occurs.

- The socket-outlet shall be installed near the machine and shall be easily accessible as the power plug may be difficult to pull out when an emergency occurs.
- Always use this product in a well ventilated location. Operating the product in a poorly ventilated room for an extended period of time could injure your health. Ventilate the room at regular intervals.
- Whenever moving this product, be sure to disconnect the power cord and other cables. Failure to do this could damage the cord or cable, resulting in a fire, electrical shock, or breakdown.
- When moving this product, always hold it by the locations specified in the user manual or other documents. If the unit falls it may cause severe personal injury. The product may also be damaged or malfunction.
- Remove the power plug from the outlet more than one time a year and clean the area between the plug terminals. Dust that accumulates between the plug terminals may cause a fire.
- When unplugging the power cord, be sure to hold onto the plug. Pulling on the power cord could damage the cord, resulting in a fire or electrical shock.

Working Safely with Your Laser Printer

WARNING!

Working improperly with the printer can result in health hazards, electric shocks, and even fires. Before you unpack the laser printer, you should make yourself familiar with this information on your safety and operating safety.

Power Supply/Cord/Plug
Do This...
Make sure that the power supply to the unit has the correct voltage. *Otherwise the result could be a fire or an electric shock.*
Make sure that the power cord is: ■ Switched off immediately and unpluged if the power supply cord is damaged. *Failure to do so could result in a fire or an electric shock.* ■ Correctly plugged into the socket and that the socket is visible at all times and is readily accessible. ■ Not underneath the printer or another machine as this can result in damage to that cord. *The result could be a fire or improper functioning of the unit in question.* ■ Removed from the socket if the machine will not be in use for an extended period of time.
Use only extension cords that are designed for at least the maximum power rating of the machine. *Extension cords with lower ratings can result in the unit overheating and can even lead to a fire.*
DO NOT...
Pull on the cord to pull the power plug out of the socket as this may damage the cord. *The result could be an electric shock or a fire.*
■ Remove from the power cord from the socket with wet hands as this may result in an electric shock. ■ Place any heavy objects on the power cord. ■ Do not pull or kink the cord as this can result in damage to the cord. The result could be an electric shock or a fire. ■ Leave the power cord plugged into the socket when you move the printer. *Otherwise you may damage the cord. The result could be a short-circuit or a fire.*
Do not switch off the unit while printing is in progress.

Printer Body
Do This...
Perform only the procedures that are described in this manual. Using the machine improperly can result in a fire or an electric shock.
Notes on your safety and operating safety
Working improperly with the printer can result in health hazards, electric shocks and even fires. Before you unpack the laser printer, you should make yourself familiar with this information on your safety and operating safety.
If the machine becomes unusually hot, or if you notice smoke or an unusual odor coming from the machine, switch it off immediately and remove the power cord from the socket.
DO NOT...
Do not place: ■ Heavy objects on the machine. ■ Magnetic objects near the machine. ■ Coffee cups, drinks, bottles, or other containers with liquids in them on the machine. *If liquid enters the machine the result could be an electric shock or a fire. If liquid does get into the machine, switch it off immediately, disconnect the power cord.* Paper clips, staples, or other small metal objects into openings on the machine. *The result could be an electric shock or a fire. If metal pieces are fed into the machine, switch it off immediately, disconnect the power cord.*
Do not open any covers on the machine while printing is in progress.
Do not use any flammable sprays, liquids or gases in the vicinity of the machine.
Do not remove any safety devices and do not alter the construction of the machine. The unit is equipped with high-voltage components. Using the machine improperly can result in a fire or an electric shock.

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